



Schlage Express™

Offline Access Control
Software



Overview

Schlage Express™ Offline Access Control Software provides a simple and effective means to manage access control within your facility. It supports Schlage offline locks including the CO-200, CO-220, AD-200 and AD-201, as well as the CT5000 controller. Schlage Express is recommended for smaller facilities with basic access control needs.

It allows you to quickly enter or delete users and access points. It is compatible with a variety of credential options including PIN codes, iButtons, magnetic stripe, proximity and smart cards. For added security, dual authentication (card + PIN) is also supported.

Reporting capability is available to show audit trails retrieved, access privileges granted, and time functions established by either user or door.

Features and benefits

- A variety of credential functions are supported including normal, toggle, one time and pass through
- Auto unlock schedules - allows weekly repeating for automatic locking and unlocking of doors (up to 16 defined per system; up to 8 assigned per lock)
- Supports magnetic stripe, proximity and smart cards
- Supported devices include CO-200, CO-220, AD-200, AD-201, CM, KC-2, CT-1000, CT5000 and BE367
- Supports Windows XP, Windows 7 and Windows 8
- User times zones- limits the hours and days a user can access assigned points (Up to 8)
- Holidays - suspends normal operations for user defined periods per door during non-normal days (Up to 16)
- Users/audits and lock support
- 2,000 Users/audits and 50 locks/devices
- 1,000 Users/audits and 100 locks/devices
- Supports 12 button keypad with up to 6 digit PIN codes
- Duplicate PIN notification feature

Specifications

Hardware	Intel Pentium II processor (Pentium III or IV recommended), CD-ROM, mouse or compatible pointing device, VGA or Super VGA monitor, keyboard
Hard disk space	250 MB for software; will require additional space for stored data
Memory	256 MB RAM minimum or the memory required for the operating system, whichever is greater
Operating system	Microsoft Windows XP, Windows 7 and Windows 8

Reports with the built-in viewer Internet Explorer 6 or higher must be installed.

Required for programming	For offline locking system programming using a Schlage approved HHD device, the following is required: <ul style="list-style-type: none">▪ Available USB port on the PC▪ Approved HHD device with installed communications software and interface cables from Schlage For offline legacy locking system programming done directly from the PC, the following is required: <ul style="list-style-type: none">▪ Available USB port on the PC▪ Programming interface cables
--------------------------	--

Ordering information

- **SXPR-SFT-1** - Schlage Express software only

Accessories

- **HHD KIT** - Handheld device to manage Schlage offline locks (USB cable included for managing AD Series and CO Series locks)
- **HHD-USB** - Additional or replacement cable used to connect HHD to AD Series and CO Series products
- **HH-Serial** - Serial cable used in conjunction with HHD KIT and CIP for managing legacy Schlage offline locks
- **PS12112** - Computer interface module used in conjunction with HH-Serial cable for managing legacy Schlage offline locks
- **P101203** - Computer Interface module with ibutton reader used in conjunction with HH-Serial Cable for managing legacy Schlage offline locks
- **P394548** - Female/female serial cable. Used to connect computer interface module to laptop/PC
- **SDB9USBCBL** - Six inch cable adapter allows a serial port device to be used with a USB port device (for use with PS12112)
- **CRP2** - Proximity credential enrollment reader. Used to read proximity data for enrollment into Schlage Express 4.0 and higher
- **CRM2** - Magnetic stripe credential enrollment reader. Used to read magnetic stripe data for enrollment into Schlage Express 4.0 and higher

Allegion, the Allegion logo, Schlage, the Schlage logo, and Schlage Express are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
003940, Rev. 08/14
www.allegion.com/us



Integrated security solution

with AD-300 Hardwired, AD-400 Wireless devices in CS Access™

cbord®



Overview

Schlage AD Series locks seamlessly integrate with CBORD® CS Access™ to provide a cost effective and scalable access control solution to meet your security needs. The CBORD Squadron® V1000EVO controller is capable of supporting up to 32 AD-400 or AD-300 via RS-485 lines.

CBORD has incorporated two new features into the system, allowing for secure and convenient access utilizing a Smartphone as a credential to unlock AD Series locks. "Open MyDoor" is a method for an authorized person to unlock their door remotely through their phone. "MasterKey" is a method for a CBORD administrator to use their phone to unlock someone else's door. When this is done the "owner or inhabitant" of this room receives a text on their phone indicating that an authorized person has unlocked their door.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

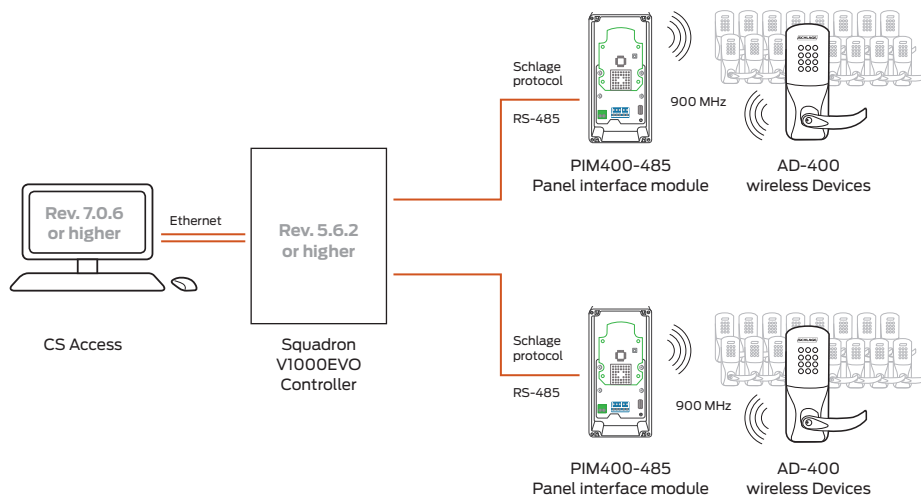
System Capabilities Summary

- Access via Mobile Device with "Open MyDoor"
- Access via iPhone or Android Smartphones with CBORD Mobile ID™
- MasterKey access privileges only available on demand
- MasterKey and Open MyDoor available through text messages or via the web
- MasterKey use notification provided to room occupants
- Enhanced productivity with remote linking from mobile device
- Privacy Override configured by Patron
- AD-300 hardwired:
 - V1000RX controller supports up to 32 AD-300 locks with CBORD provided hubs; RS-485 direct to locks
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time bidirectional access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400-485 in 10 seconds or less, preserves up to 2 year battery life (4 AA batteries)
- Additional details on readers supported and chassis types available on page 3 and 4
- ANSI/BHMA Grade 1, ANSI/BHMA A156.25, UL 294, UL 10C

AD-400 via RS-485 with CS Access and V1000EVO

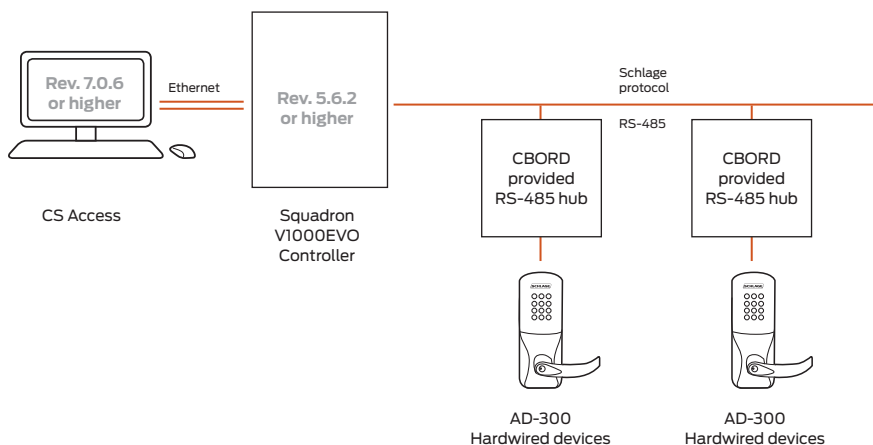
- CBORD V1000EVO will support up to (6) PIM400-485 direct per each of the (2) RS-485 ports. V1000EVO can support up to (32) PIM400-485s with use of CBORD provided RS-485 hubs.
- Maximum total of (32) AD-400s per panel by using CBORD hubs
- Up to 200' in typical building construction, up to 1000' line of sight

Note: CBORD Squadron does not support combining AD-300 and AD-400 on the same V1000EVO



AD-300 with CS Access and V1000EVO

- CBORD V1000EVO will support up to (32) AD-300 with CBORD provided RS-485 hubs on RS-485 ports, or (1) direct w/o hubs off each of the two available RS-485 ports.
- Capable of daisy chaining Up to 8 hubs per port (max 8 locks per hub)



Note:

Please refer to AD-400, PIM400-485, WPR400, WRI400, AD-300 data sheets for complete AD Series specifications.

System capabilities:

	AD-400 PIM400-485	AD-300 Direct RS-485
Features		
Maximum number of readers supported by controller/PIM	32	32
Maximum number of readers per PIM400	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	6 direct (up to 32 w/ hubs)	32 (w/hubs)
Access control decision made by host software or by lock database	Host	Host
Remote Linking capability via Host	Yes	N/A
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	No
Request to enter	Yes	No
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes / Yes	Yes / Yes
Remote lockdown/unlock	Yes (<10 sec)	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Office/toggle	Yes	Yes
Privacy	Yes	Yes
Apartment	Yes	Yes
Licensing	Please contact CBORD to determine licensing requirements.	

Please contact CBORD's CS Access for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ Solution is able to read PIV and PIV-I credentials, however is not FIPS 201 compliant.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

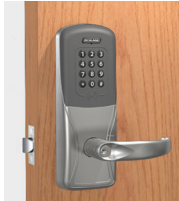
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (shown here),
Mortise Deadbolt Lock
(AD-300/400-MS and -MD)



Cylindrical Lock
(AD-300/400-CY)



Exit Device Trim
(AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



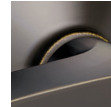
605
Bright brass



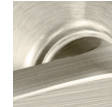
606
Satin brass



612
Satin bronze



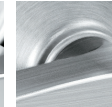
643e
Aged bronze



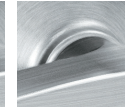
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005353, Rev. 09/17
www.allegion.com/us

For additional information contact CBORD's CS Access™: 866.789.2977



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and S2 Netbox™



Overview

Schlage® NDE or LE locks with ENGAGE™ technology seamlessly integrate with S2 Netbox™ to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

S2 Netbox enables management of NDE and LE wireless locks and event monitoring functionality without requiring third-party hardware. Managed by S2 Netbox through the Allegion Engage Gateway the locks communicate with the gateway using Bluetooth Low Energy.

S2 Netbox also supports AD Series locks allowing you to combine both lock platforms into a single solution.

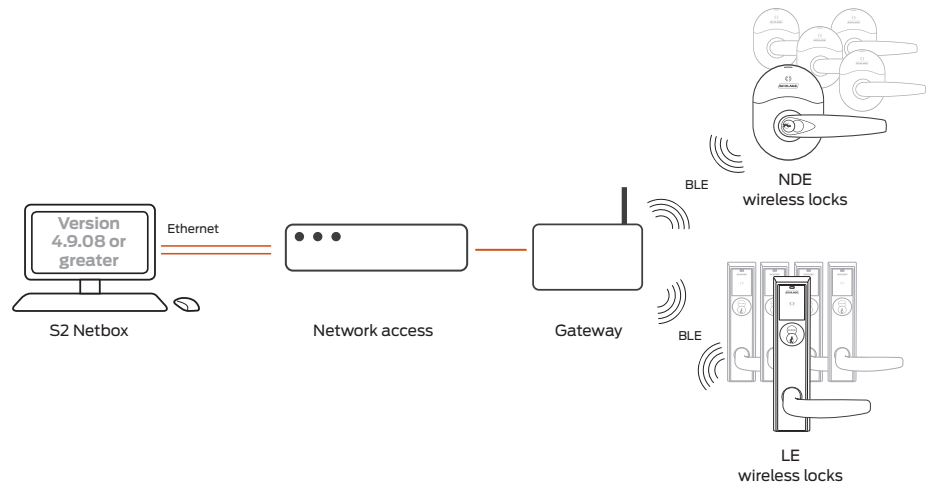
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks with Gateway via IP (PoE)

- S2 Netbox supports up to 1000 NDE/LE locks total
- S2 Netbox supports a maximum of 1000 gateways
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact S2 Security: 1.508.663.2500 or www.S2Sys.com

System capabilities:

	NDE/LE locks with Gateway via IP
Features	
Maximum number of locks supported by controller	1000
Maximum number of locks supported via network access	1000
Maximum number of gateways per controller/Host	1000
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Lock
Remote linking capability via Host	No
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	N/A
Lock functions	
Classroom/storeroom	Yes
Privacy - LE only	Yes
Office - LE only	Yes
Apartment - LE only	Yes
Licensing	
Please contact S2 Security to determine licensing requirements	

Please contact S2 Security for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

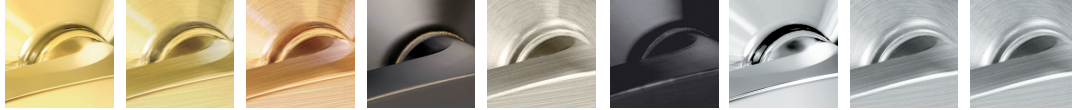
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011680, Rev. 12/17
www.allegion.com/us



Integrated security solution

with AD-300 hardwired and AD-400 wireless devices and Doors.Net



Overview

Schlage AD Series locks seamlessly integrate with Doors.NET to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks and devices can be utilized to extend the reach of your Doors.NET Software access control system. Schlage AD Series wireless locks and devices provide many of the benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management without the wires.

Keri Systems is one of North America's largest independent access control and integrated security system manufacturers. Their Doors.NET Software and TCP/IP-based NXT Hardware solution provides sophisticated access control and video integration with all of the features required to manage a few doors or hundreds of doors, in a modern IT-friendly architecture and user-friendly interface.

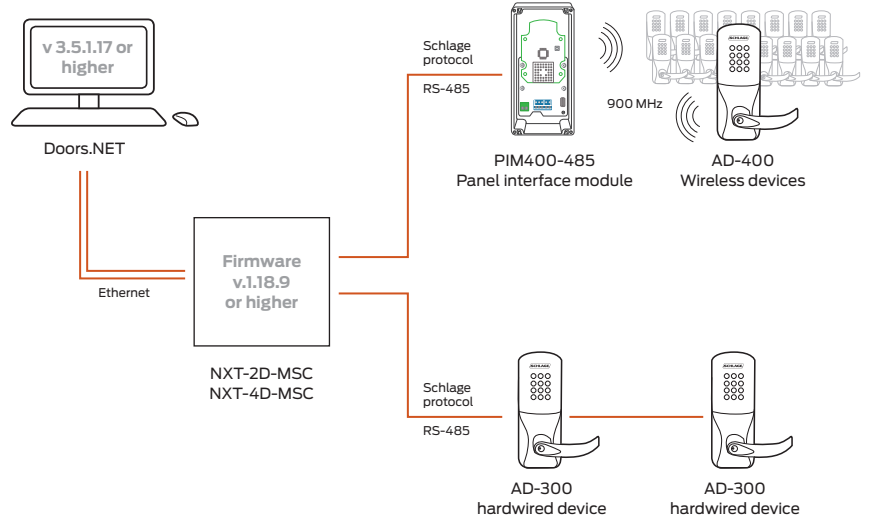
AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real-time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Wireless lockdown /unlock feature via PIM400-485 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote doors, parking gates, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

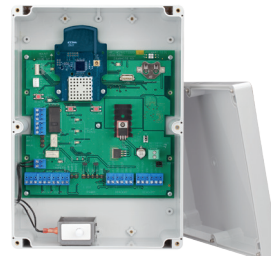
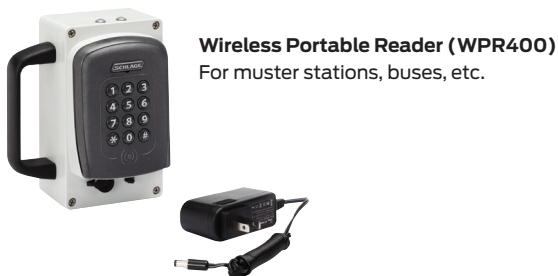
AD-400 and AD-300 via RS-485 with Doors.NET and NXT Controllers (Mercury Powered)

- NXT-2D-MSC can support up to 2 PIM400-485 1 per each RS485 data line or up to 15 AD-300 on each RS485 data line
- NXT-4D -MSC can support up to 4 PIM400-485, 1 per each of the 4 RS485 data lines or up to 15 AD-300 on each of the 4 RS485 data lines
- Each PIM400-485-KRI can support up to 16 AD-400 wireless devices
 - NXT-2D-MSC can support up to 30 AD-300 or up to 32 AD-400
 - NXT-4D-MSC can support up to 60 AD-300 or up to 64 AD-400
- AD-400 wireless range up to 200' in typical building construction, up to 1000' line of sight
- It is possible for a NXT controller to support both AD-300 and AD-400 locks but they must reside on separate RS485 data lines



Contact Keri Systems for more information on Wiegand solutions.

Extend the reach with AD Series Wireless accessories



Note:

Please refer to AD-400, PIM400-485, WPR400, WRI400 data sheets for complete AD Series specifications.

For additional information contact Keri Systems: 800.260.5265 or www.kerisys.com

System capabilities:

	AD-400 PIM400-485	AD-300 Direct RS-485
Features		
Maximum number of readers supported by controller	NXT-2D-MS-C = 32 NXT-4D-MS-C = 64	NXT-2D-MS-C = 30 NXT-4D-MS-C = 60
Maximum number of readers per PIM400	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	1	1
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	Yes	N/A
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV and PIV-I card compatible ¹	Yes	Yes
Card + PIN	Yes (up to 15 digit PIN)	Yes (up to 15 digit PIN)
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	Yes	Yes
Low battery status	Yes	N/A
Communication status: RF/RS485	Yes/Yes	N/A
Remote lockout/unlock ²	Yes (< 10 sec) ²	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Privacy	Yes	Yes
Office	Yes	Yes
Apartment	Yes	Yes
Licensing	Please contact Keri Systems to determine licensing requirements.	

Please contact Keri Systems for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 FIPS 201 compliant option available: The AD Series can be used in applications which require approval by the US Federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 and AD-301 data sheets for complete details.

2 For greater than 1 device will be <20 sec.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

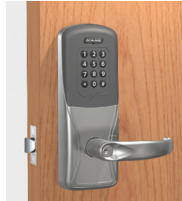
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/AD-400)



Cylindrical Lock (AD-300/AD-400)



Exit Device Trim (AD-300/AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



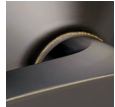
605
Bright brass



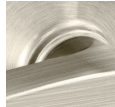
606
Satin brass



612
Satin bronze



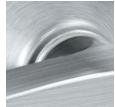
643e
Aged bronze



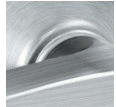
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Cool tone finishes

Allegion, the Allegion logo, aptiQ, Falcon, Schlage, the Schlage logo, Von Duprin and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005037, Rev. 09/17
www.allegion.com/us

For additional information contact Keri Systems: 800.260.5265 or www.kerisys.com



Classroom doors

Education solutions

Every school has several security zones, each with a unique set of requirements and openings. Classrooms are the innermost security zone in a school.

Three distinct classroom lockdown solutions:

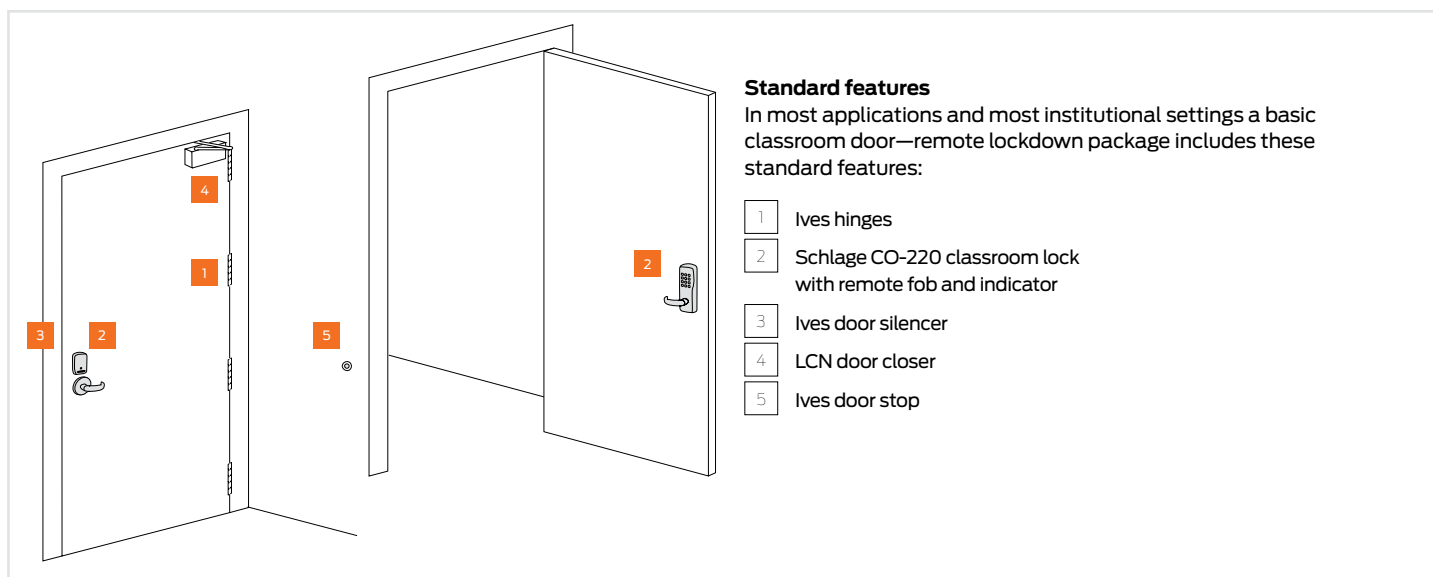
Centralized lockdown: Simultaneous building-wide lockdown controlled by an individual using access control software

Local remote lockdown: A standalone electronic solution activated by a fob within proximity of the door

Manual lockdown: Relies on an individual to be at the door with the right key in hand during a lockdown situation

Classroom door—remote lockdown operational requirements:

- Doors can be locked or unlocked during the day per school requirement, but should always be closed
- Doors are secured after hours
- Access when door is locked is gained by a valid credential or key
- Free egress is available at all times
- Lockdown achieved without exiting classroom



Innovative solutions for secure classroom lockdown

Allegion offers you an array of products designed exclusively to provide swift and seamless lockdown of a classroom in an emergency situation.

Centralized lockdown

- Schlage® AD-400 wireless networked locks utilize patent-pending Wake-Up On Radio™ technology to enable lockdown in seconds.
- Schlage® AD-300 hardwired networked locks also enable centralized lockdown, and offer many features that can be monitored by access control software.
- The AD-Series was designed on an open architecture platform so that it can easily be integrated into virtually any access control system via Wiegand, Clock & Data or RS-485.

Remote local lockdown

- The Schlage® CO-220 standalone classroom security lock with remote fob allows for immediate local lockdown.
- Lockdown can be initiated for up to 10 doors in range by pressing the button on the fob, which can be worn around the neck or wrist.
- When activated, the visual indicator on the interior of the lock illuminates providing verification that the door is secured.

Manual lockdown

- The Schlage® L-Series mortise lock with 180° visual indicator allows one to view the door lock status from across the room.
- Standard on the Schlage® ND-Series classroom security lock, the ND Indicator rose provides at-a-glance instructions for securing the door from inside the room.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Schlage® AD-400 wireless networked lock



Schlage® CO-220 electronic lock with keyfob



Schlage® L-Series and ND-Series mechanical locks



Start with Allegion

Call **877-671-7011**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, grant funding or seamless integration with your one card system

Visit www.allegion.com/us/industries/education

- Access our online security and safety self-assessment tools
- Find information about our products and services
- Review case studies about how schools build the foundation of security and safety



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
005512, Rev. 05/14
www.allegion.com/us



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Access Expert by Schneider Electric



Overview

The Schlage® NDE wireless lock with ENGAGE™ technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

Schlage NDE locks with ENGAGE technology seamlessly integrate with Access Expert by Schneider Electric to provide a cost effective and scalable access control solution to meet your security needs. This integration allows customers to leverage both the security and convenience of the Schlage wireless locks while harnessing the power of an open, cloud based security platform built for today's enterprise customers. Access Expert by Schneider Electric is a true cloud based access control and ID management platform based on industry standard hardware. Access Expert is the only product to offer customers a choice of a cloud or traditional on premise (private cloud) deployment methodologies.

AccessXpert by Schneider Electric also supports AD Series locks allowing you to combine both lock platforms into a single solution.

System Capabilities

Summary

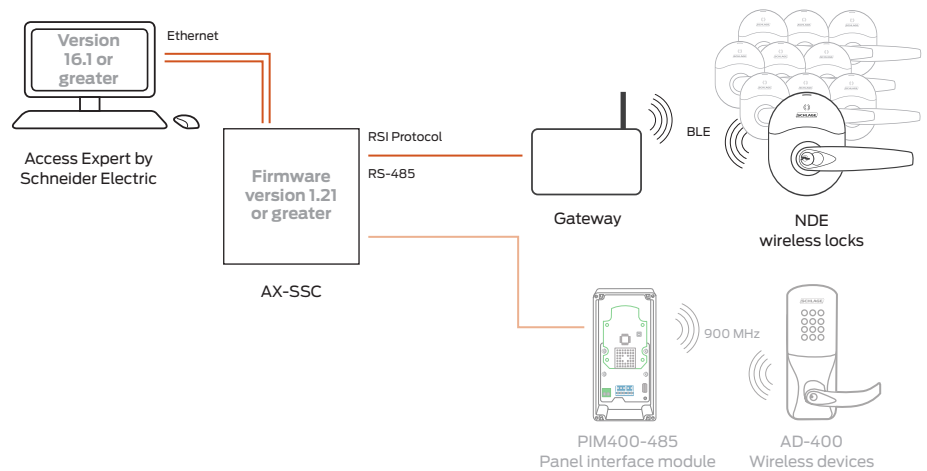
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with Access Expert by Schneider Electric and AX-SSC

- AX-SSC supports up to 64 NDE locks total
- AX-SSC supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each AX-SSC
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Schneider Electric AD Series solution sheet for additional details.

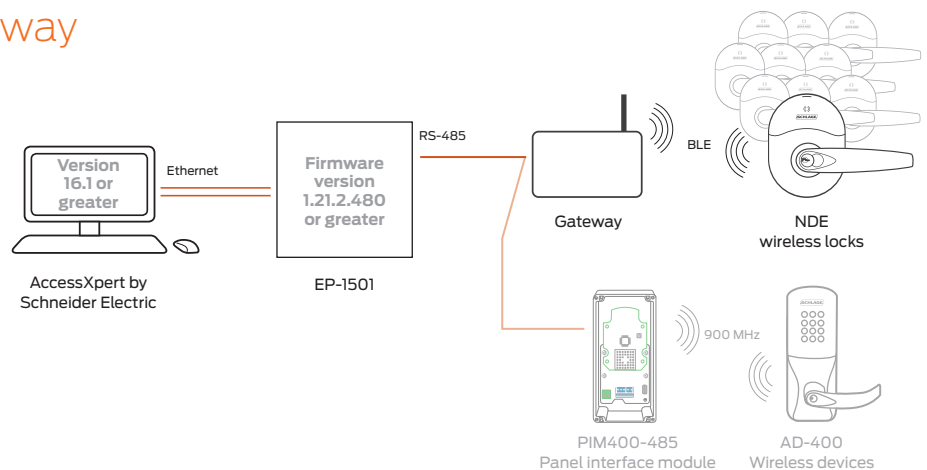


NDE locks via C1501/Gateway

- EP-1501 supports up to 16 NDE and or AD-400 locks combined
- The EP-1501 supports a maximum of 8 gateways or PIM400-485*
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Schneider Electric AD Series solution sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE locks via Gateway (RS-485)	NDE locks via C1501/Gateway
Features		
Maximum number of locks supported by controller	64	16
Maximum number of locks supported via network access	N/A	N/A
Maximum number of gateways per controller/Host	16	8
Maximum number of NDE locks per gateway	10	10
Access control decision made by Host software or by lock database	Mercury controller	Mercury controller
Remote linking capability via Host	Yes	Yes
Credentials		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	No	No
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	No	No
Request to enter	No	No
Low battery status	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)
Interior push button	No	No
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing		
Please contact Schneider Electric to determine licensing requirements		

Please contact Schneider Electric for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

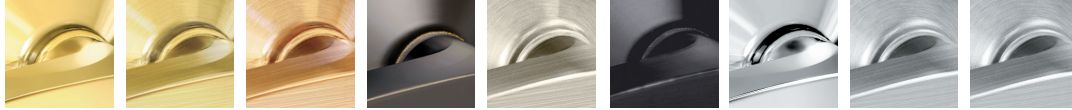
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011567, Rev. 12/17
www.allegion.com/us



AD Series electronic locks

Protect your students — and your investment

At school, students and teachers need to feel safe, the environment needs to promote learning and physical property needs to be protected. That's why we created the AD Series electronic lock. It's a new generation of electronic locks that offer the same level of security and innovation you've come to expect from Schlage®

Every school is different, and the AD Series electronic lock offers flexible choices and solutions to cover them all, no matter if you're securing one school building, or a whole school district.

The innovative modular design of the AD Series makes it a solution that's right for today's needs, and adapts to whatever the future holds. This means you're free to upgrade credential readers and networking modules without taking the lock off the door.

The scalability of the AD Series allows it to evolve along with your environment. Start by securing just a few offline perimeter doors. When you're ready, add more openings and put the whole system on a network – giving you the ability to lock down the facility in seconds. After all, that's what real security is all about.





AD Series electronic locks don't just make the grade. They set the curve.

Schools face security challenges that are truly unique. Not only is it important to provide a safe, secure learning environment, but also provide a place that the community can feel comfortable using for meetings and special events. This is why you need AD Series electronic locks from Schlage. From day one, you know that your school is protected, and so is your investment.

The AD Series allows you to:

- Initialize centralized lockdown in both wireless and hardwired networked applications.
- Provide varying levels of security to perimeter openings, classrooms and administrative areas.
- Control and audit access to security sensitive buildings and rooms.
- Adapt to evolving security management plans.
- Install access control in historical or difficult to wire buildings using the wireless networking option.
- Monitor lock status, including battery life.
- Provide a higher level of security in sensitive areas by installing mortise deadbolts.
- Know your solution meets ANSI/BHMA A156.25 Grade 1 requirements and is UL Listed.

Allegion, the Allegion logo, Schlage, the Schlage logo, Falcon and Von Duprin, are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.



Flexible

- Multiple reader choices give you the option to mix and match credentials as needed.
- Dual credential readers (card + PIN) available for identity verification – it's not only what you have (credential), but also what you know (PIN).
- Available in offline and wireless or hardwired networked solutions.
- Compatible with most master key systems and major brands of exit devices including Von Duprin® and Falcon®

Adaptable

- Provides a platform for future upgrades while seamlessly integrating with your existing one-card and access control solutions through its open architecture platform.
- Modular design gives you the option to change credential readers or network options as needs change – all without taking the lock off of the door.

Scalable

- Offline and networked solutions for different openings in your facility

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
006143, Rev. 10/14
www.allegion.com/us



Integrated security solution

with NDE Series wireless locks featuring ENGAGE™ technology and StratIS Sphere

STRATIS



Overview

Schlage® NDE Series locks with ENGAGE™ technology seamlessly integrate with StratIS to provide a cost effective and scalable access control solution to meet your security needs.

StratIS and Schlage have partnered to secure the simplification of access control through the management of connected technologies. Our focus is multi-family properties that want to differentiate through leveraging cuttingedge technologies including NDE, phone-as-credential, and MiFare smartcard credential. In addition, to offering mobile phone access control, StratIS software fully supports utilizing your phone as an integrated controller for energy and apartment automation.

The Schlage NDE Series wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

Advanced offline solutions

- StratIS supports unlimited NDE locks

Note: Management mobile app only runs on mobile device supplied by StratIS

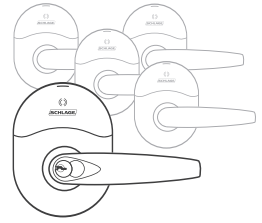
STRATIS SPHERE



Management and Resident App



BLE



NDE Series wireless locks

Note:

Please refer to NDE Series locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact StratIS: 844.787.2847 or <https://stratisiot.com/>

System capabilities:

	Advanced offline solutions
Features	
Maximum number of locks supported by controller	N/A
Maximum number of locks supported via network access	Unlimited
Maximum number of gateways per controller/Host	N/A
Maximum number of NDE locks per gateway	N/A
Access control decision made by Host software or by lock database	Lock
Remote linking capability via Host	N/A
Update frequency	Manual touring
Schedules	No
Holiday	Manual
Update frequency	Manual
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	No
Door position	No
Mechanical key override	N/A
Request to enter	N/A
Low battery status	No
Communication Status BLE/RS-485	No
Remote lockdown/unlock	No
Interior push button	No
Lock functions	
Classroom/storeroom	Yes
Licensing	
Please contact StratIS to determine licensing requirements	

Please contact StratIS for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605
Bright brass



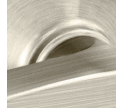
606
Satin brass



612
Satin bronze



643e
Aged bronze



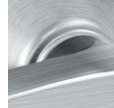
619
Satin nickel



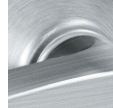
622
Matte black*



625
Bright chrome



626
Satin chrome



626AM
Satin chrome
with antimicrobial

* Coming Q2 2017

Lever styles



Athens



Rhodes



Sparta

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011612, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-300 hardwired and AD-400 wireless devices and Blackboard Transact

Blackboard
transact™



Overview

Schlage AD Series locks seamlessly integrate with Blackboard Transact™ to provide a cost effective and scalable access control solution to meet your security needs.

Blackboard Transact provides commerce and security management solutions and financial services that make the lives of students more convenient and secure. Today, hundreds of colleges and universities rely on the Blackboard Transact integrated technology platform to deliver reliable and sophisticated capabilities that power payments on-campus, off-campus and online. Blackboard Transact is also a leader in campus security solutions including access control, video surveillance and mass notification. Institutions large and small use Blackboard Transact solutions to automate transaction processing, reduce errors, eliminate operational redundancies and control costs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including realtime monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

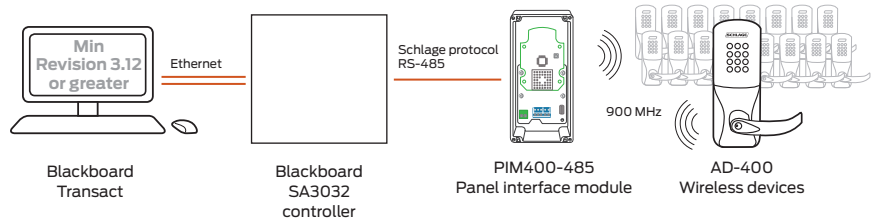
System Capabilities Summary

- AD-300 Hardwired
 - Real-time monitoring capability
 - Centralized lockdown feature that allows you to secure your facility instantly
 - Battery back-up for emergency stand-by when used with a battery backed-up power supply
 - Field configurable fail safe/fail secure
- AD-400 Wireless
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 in 10 seconds or less (preserves up to 2 years battery life)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via PIM400-485 with Blackboard Transact

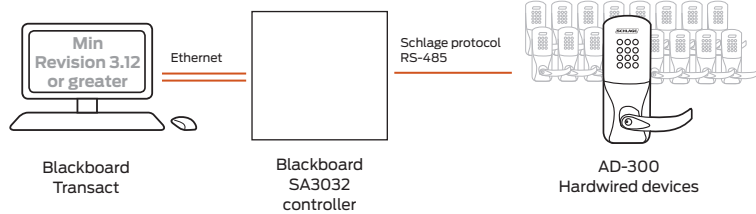
- Transact supports up to 16 PIM400-485 with up to 16 AD-400 readers total
- Wireless range Up to 200' in typical building construction, up to 1000' line of site

NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-300 via RS-485 with Blackboard Transact

- Transact supports up to 16 AD-300 readers



Note:

Please refer to AD-300, AD-400, and PIM400-485 data sheets for complete AD-Series specifications.

System capabilities:

	AD-400 PIM400-485	AD-300 Direct RS-485
Features		
Maximum number of readers supported by controller/PIM	16	16
Maximum number of readers per PIM400	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 16	Up to 16
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
Readers - see supported card formats below		
Keypad only	No	No
Magnetic stripe card	Yes	Yes
Multi-technology - 125 khz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible	No	No
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	No	No
Request to enter	Yes	Yes
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes /Yes	Yes/Yes
Remote lockdown/unlock ¹	Yes (<10 sec) ¹	Yes
Deadbolt position	No	No
Interior push button	Yes ²	Yes ²
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing		
Please contact Blackboard to determine licensing requirements.		

Please contact Blackboard Transact for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ 1 device < 10 seconds
Greater than 1 device < 80 seconds

² Check with Blackboard for details on IPB Function

³ AD lock with MT/MTK reader must be ordered pre-programmed to read the Blackboard EV1 and Blackboard MiFare Classic

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card
- KEYPAD



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

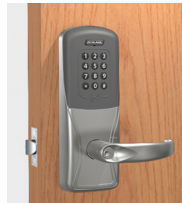
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



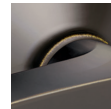
605
Bright brass



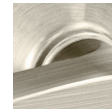
606
Satin brass



612
Satin bronze



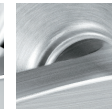
643e
Aged bronze



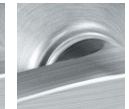
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005442, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400 wireless devices,
AD-300 hardwired locks and
Lenel OnGuard®



Overview

Schlage AD Series hardwired and wireless locks seamlessly integrate with Lenel OnGuard® (version 6.6 SP1 or higher) to provide a cost effective and scalable access control solution.

OnGuard® offers advanced access control, alarm monitoring, digital video, intrusion detection, asset tracking, information security integration, credential production, and employee and visitor management functionality. Individual application modules are available as standalone systems or can be deployed in any combination to deliver a single, seamlessly integrated solution.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications, the Schlage AD Series wireless locks and device, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

AD Series wireless locks combine the components typically found around the door, such as the door position switch and the request-to-exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

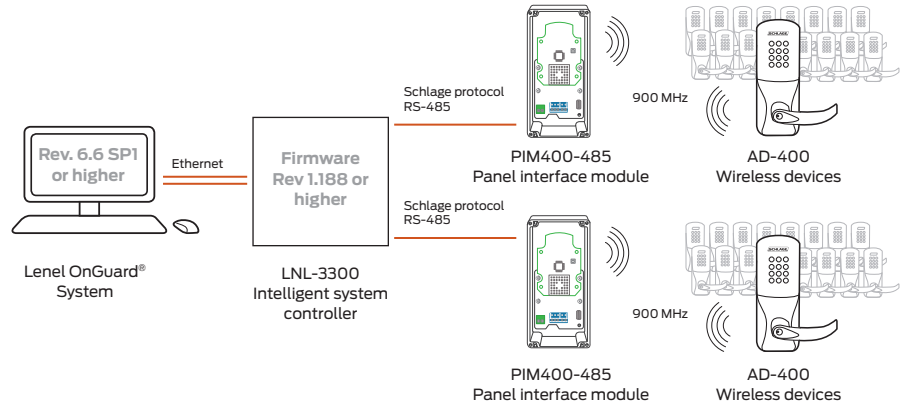
System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Lenel OnGuard supports Remote Linking of AD-400 wireless locks
- Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less preserves up to 2 year battery life)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400)
 - Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485

- LNL-3300 supports up to 64 AD Series locks total
- LNL-3300 supports a maximum of 8 PIM400-485s or AD-300s per RS-485 port
There are 2 ports on each LNL-3300
- Wireless range up to 200' in building construction, up to 1000' line of sight

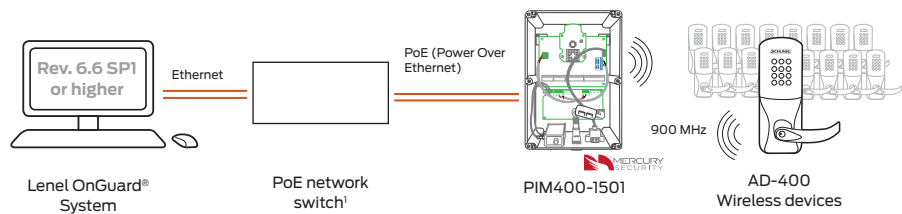
NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-400 via PIM400-1501 (PIM400-485 plus LNL-2210 in same enclosure)

- PIM400-1501 supports up to 16 AD-400 devices
- Wireless range Up to 200' in building construction, up to 1000' line of site

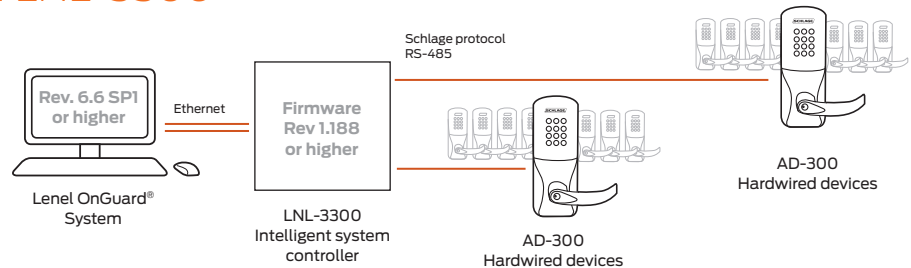
¹ In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300 via RS-485 with LNL-3300

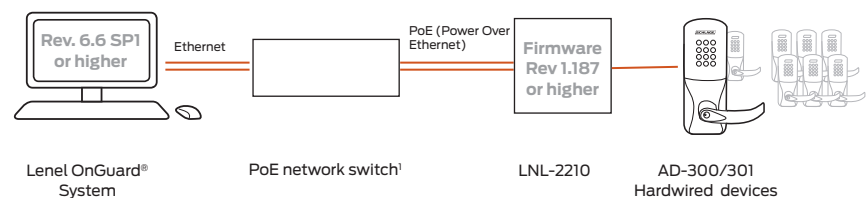
- LNL-3300 supports up to 16 AD-300 locks (up to 8 AD-300 locks on each RS-485 port)

NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-300/301 via RS-485 with LNL-2210

- LNL-2210 can control a total of 8 AD-300/301 on a common RS-485 data line
- LNL-2210 can PoE (Power Over Ethernet) 2 AD-300/301
- Remaining 6 AD-300/301 will be powered from an external 12/24VDC power supply.



Contact Lenel when designing or adding on to a current system that currently uses the LNL-500W to support the AD-400.

Note:

Please refer to AD-300, AD-400, PIM400-485, PIM400-TD2, PIM400-1501, WPR400, and WRI400 data sheets for complete AD Series specifications

For additional information contact Lenel: 1.800.631.6046 or www.lenel.com

System capabilities:

	AD-400 PIM400-485 (LNL-3300)	AD-400 PIM400-1501 (PIM400-485 + LNL-2210)	AD-300 Direct RS-485 (LNL-3300)	AD-300 (LNL-2210)
Features				
Maximum number of readers supported by controller/PIM	64	16	16	8 AD-300 (LNL-2210 can provide PoE power for 2 AD-300/301)
Maximum number of readers per PIM400	16	16	N/A	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	PIM400-485 included	Up to 8	Up to 8
Access control decision made by host or by lock database	Host	Host	Host	Host
Remote Linking capability via Host	Yes	Yes	N/A	N/A
Readers - see supported card formats below				
Keypad only	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes
Card + PIN	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)	Yes (up to 9 digits)
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes
Request to enter	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes	Yes
Remote lockdown/unlock	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes	Yes
Deadbolt position	Yes	Yes	Yes	Yes
Interior push button	Yes	Yes	Yes	Yes
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes
Office/toggle	Yes	Yes	Yes	Yes
Privacy	Yes	Yes	Yes	Yes
Apartment	Yes	Yes	Yes	Yes
Licensing	Please contact Lenel to determine licensing requirements.			

Please contact Lenel for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible I

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Lenel to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

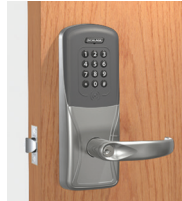
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400)



Cylindrical Lock (AD-300/400)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



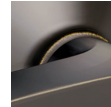
605 Bright brass



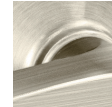
606 Satin brass



612 Satin bronze



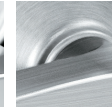
643e Aged bronze



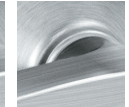
619 Satin nickel



625 Bright chrome



626 Satin chrome



626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005080, Rev. 09/17
www.allegion.com/us

Products for school and classroom lockdown compliance

Violent incidents on school campuses are increasing at an alarming rate. Lockdowns are an effective tool that can be used on school campuses to facilitate the safety of pupils and staff during violent incidents.

Unfortunately, many of the locks in most school classrooms, offices, and other rooms where pupils and staff gather can only be locked from the outside thereby putting staff and pupils in jeopardy by requiring them to go out into a hallway to lock doors during a violent incident. Locking mechanisms that allow the door to be locked from the inside, commonly referred to as classroom security function locks, have been developed to quickly lock doors to classrooms, offices, and other rooms from the inside.

Per state adopted fire codes and laws such as California Law AB 211 Article 8.5, many schools are required to transition to classroom security function locks whether it be on existing or new construction.*

With a wide range of solutions and services that meet this requirement for your classroom or school, Allegion has what you need no matter how demanding your project specifications may be and we stand behind every product we make. Our commitment to design performance and technology ensures those you love can stand behind our locks too.

*Please refer to official state codes and laws for complete and specific requirements.





Allegion brings to you an array of classroom security function options designed exclusively to provide peace of mind in an emergency situation.

Centralized lockdown option

AD-300 and AD-400 networked locks

For areas of your school where increased monitoring and control are needed, a networked solution is essential. AD-300 hardwired and AD-400 wireless networked locks are open architecture which allows them to integrate with a variety of Access Control Software Providers. They also allow for real-time monitoring and efficient centralized lockdown.



Remote lockdown option

CO-220 Standalone classroom security lock with remote fob for local lockdown

The CO-220 provides the peace of mind of knowing that you are ready to respond in seconds. The remote fob can be worn conveniently around the neck or wrist so that it is immediately accessible by teachers and staff members. Lockdown can be initiated for up to 10 doors in range by pressing the button on the fob. When the button on the remote fob is pressed, the visual indicator on the interior of the lock illuminates, providing verification that the door is secured.



Mechanical lockdown options

L Series mortise lock with 180° visual indicator

The Schlage L Series classroom security indicator provides 180° visibility of the door status, letting students and staff know whether the door is locked or unlocked from across the room. Message window in 2" wide x 1/2" tall and utilizes text, symbols, and color coding to indicate status.



Note: Kits are available to convert an existing L Series classroom function lock to classroom security function.

ND Series cylindrical lock with indicator rose

Standard on the ND Series classroom security lock, the ND indicator rose provides at-a-glance instructions for re-locking the door (in panic situations, it is easy to forget whether key rotates clockwise or counterclockwise to lock the door).



Note: Kits are available to convert an existing ND Series classroom function lock to either a classroom security function or corridor function as required by code.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
004012, Rev. 12/14
www.allegion.com/us



Integrated security solution

Schlage Control™ Smart Locks with ENGAGE™ technology integrated with StratIS



STRATIS

Overview

Schlage Control™ Smart Locks with ENGAGE™ technology seamlessly integrate with StratIS to provide a cost effective and scalable access control solution to meet your security needs.

Enhance and enable advanced property management and resident applications with a StratIS and ENGAGE Technology integration. StratIS delivers access, energy, and automation management and control. StratIS Access Management and Control software enables no-tour staff credentials, maintenance credentials and requests, collaborative management, as well as, a resident smart phone app as a credential. StratIS is scalable, offering the ability to manage multiple properties from a single dashboard.

Schlage Control™ Smart Locks mark a new era of electronic access control in the multi-family world. By ushering in the next generation of highly scalable, efficiency boosting capabilities, multi-family properties can focus on operating more profitably—and with greater appeal for residents. Designed specifically for the resident unit door, Schlage Control Smart Locks feature a 100% pick- and bump-proof, no-cylinder design that improves security and safety.

StratIS also supports CO series locks and CT5000 controllers allowing you to combine both common space and resident lock platforms into a single solution.

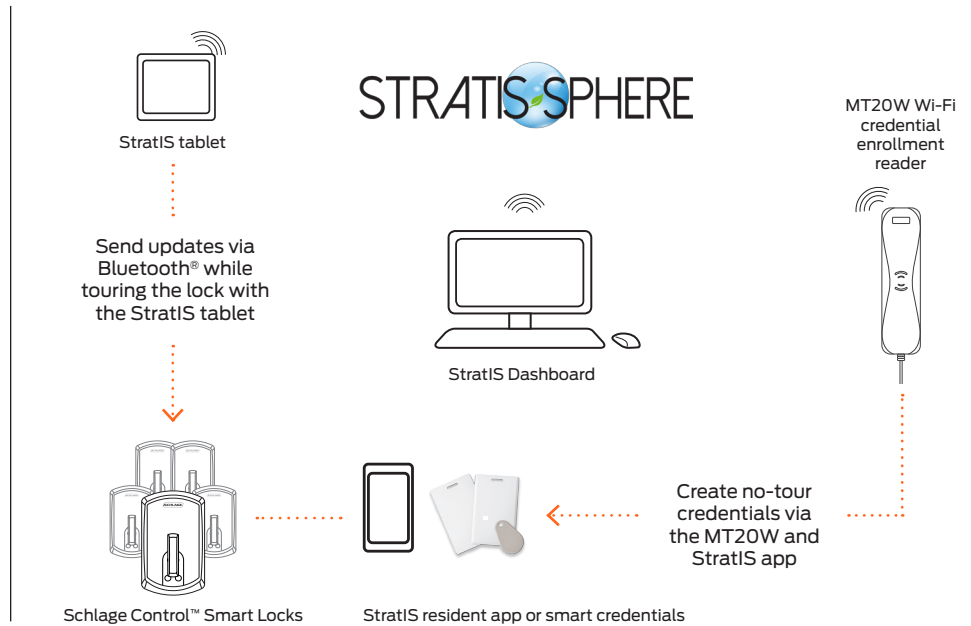
System Capabilities

- StratIS Access Management & Control
 - Resident smart phone app as credential
 - Create no-tour fobs for residents, staff, & maintenance
 - Multiple tablets & readers operate collaboratively
 - Continuous backups and auditing to the cloud
 - Add energy management and automation anytime
- StratIS tablet
 - Add and configure locks
 - Add new users and enroll credentials
 - Manage users and basic access privileges
 - View audits by door
 - Send updates manually at the lock
- Schlage Control™ Smart Lock
 - Up to 500 users and up to 1,000 audits
 - Lock programming via mobile application on phone and/or tablet (Bluetooth® connection)
 - Deadbolt and Interconnect designs available
 - Up to 2 years of battery life
 - 90 minute UL Listed A 156.12 Grade 2 ANSI/ BHMA certified

Manage access

Manage your site from virtually anywhere with StratIS Sphere cloud based web and mobile apps.

- Create and configure lock profiles
- Add new users
- Enroll no-tour credentials via MT20W
- Manage users and basic access privileges
- View full audit history
- Fully configurable system with roles/permissions
- No-tour staff keys for an unlimited number of doors
- Cost-effective offline or premium online versions available



System capabilities:

Schlage Control Smart Locks offline security solution with StratIS Access Management and Control software

System capacity

Number of locks	unlimited
Number of users	500 per lock
Number of audits	1,000 per lock ¹

Credentials

13.56 MHz Smart Credentials ²	aptiQ™ MIFARE Classic aptiQ™ MIFARE DESFire™ EV1
Smart Phone App Credential	StratIS EMS app (iOS and Android)

Status monitors

Battery voltage level	Yes
-----------------------	-----

Credential attributes

Normal credential	Yes
Toggle credential	Same function as Normal
Pass through credential	Yes
Visitor/one-time use credential	Yes
Freeze credential	Yes
Block	Yes

¹ Audits pulled at the lock with the mobile application on the site StratIS tablet. Unlimited audits in StratIS system.

² Please contact Allegion for additional details on integrated features and credentials supported.

Allegion, the Allegion logo, aptiQ, aptiQmobile, Schlage, the Schlage logo, ENGAGE Technology, the ENGAGE Technology logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

For additional information: visit stratisems.com, call 1.844.StratIS (1.844.787.2847), or sales@stratisems.com

About Allegion™

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit www.allegion.com.

aptiQ ■ FALCON ■ IVES ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2016 Allegion
MR-6079
allegion.com



VANDERBILT

Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Vanderbilt bright blue®



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with the Vanderbilt bright blue® web-based access control system to provide a cost effective and scalable access control solution to meet your security needs.

Perfect for small to medium-sized facilities, bright blue lets you manage up to 32 doors and 5000 cardholders with ease. This web-based solution does not require special software installation or a dedicated PC. Access, monitor and manage your system remotely using a standard web browser.

Vanderbilt is a global leader in creating state-of-the-art security products, encompassing access control, intruder detection, video and integrated security management systems. Our innovative approach to design aids us in creating solutions that make environments safe, secure and easy to maintain.

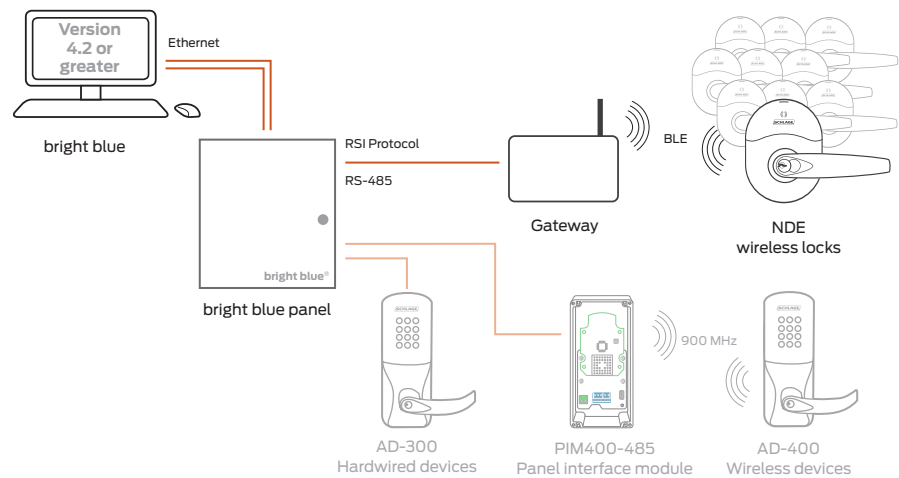
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with Vanderbilt bright blue and bright blue panel

- bright blue controller supports up to 32 NDE locks or AD locks combined
- bright blue controller supports a maximum of 16 gateways per RS-485 port
- There are 32 ports on each bright blue controller
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Vanderbilt Industries: info@vanderbiltindustries.com or 855.316.3900

System capabilities:

NDE locks via Gateway (RS-485)

Features

Maximum number of locks supported by controller	32
Maximum number of locks supported via network access ¹	N/A
Maximum number of gateways per controller/Host	32
Maximum number of NDE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	Yes
Update frequency	N/A
Schedules	Yes
Holidays	Yes

Credentials

Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	N/A

Lock functions

Classroom/storeroom	Yes
---------------------	-----

Licensing

Please contact Vanderbilt to determine licensing requirements

¹ Only applies to Direct Wi-Fi locks and IP Gateway architectures

Please contact Vanderbilt for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

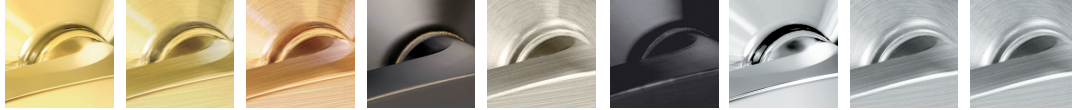
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011438, Rev. 12/17
www.allegion.com/us



Integrated security solution

with AD-300 hardwired, AD-400 wireless devices and CDVI ADH10



Overview

Schlage AD Series locks seamlessly integrate with CDVI's ADH10 controller providing a cost effective and scalable access control solution to meet your security needs.

Mix and match AD-Series locks and AWID or HID 26-bit proximity cards and readers on the same system using multiple ADH10 and ATRIUM AC22 controllers to manage projects requiring up to 100 controlled doors.

CDVI's ADH10 will automatically detect the Schlage devices present on the RS-485 communication bus drastically reducing initial setup time. In addition, the pre-assembled universal power supply allows a quick and easy installation. Finally, the sleek and easy to use Embedded Web Server provides instant results using any common web browser, smart phone or tablet. This unique and innovative integration can be defined as the industry leader in efficiency and simplicity.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

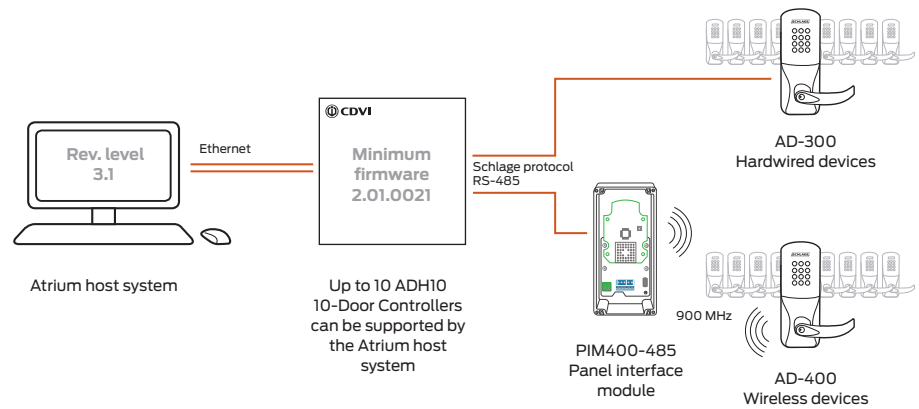
The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-300 hardwired
 - Field configurable fail safe/fail secure
- AD-400 wireless
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries (8 AA optional)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-300 and AD-400 via RS-485 with ADH10

- CDVI ADH10 will support up to 10 AD-300 and AD-400 locks combined
- By using 10 ADH10 10-Door Controllers you can expand your Atrium system to support up to 100 AD locks.
- Wireless range up to 200' typical in building construction, up to 1000' line of sight



Note:

Please refer to AD-300, AD-400, PIM400-485, data sheets for complete AD Series specifications.

For additional information contact CDVI: www.cdvi.ca or 1-866-610-0102

System capabilities:

	AD-400 PIM400-485 ADH10	AD-300 Direct RS-485 ADH10
Features		
Maximum number of readers supported by controller/PIM	100 ⁴	100 ⁴
Maximum number of readers per PIM400	10	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	10	10
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 khz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	No	No
Request to enter	No	No
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes/Yes	NA/Yes
Remote lockdown/unlock ²	Yes ²	Yes
Deadbolt position	No	No
Interior push button	Yes ³	Yes ³
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing	Please contact CDVI to determine licensing requirements.	

Please contact CDVI for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 Solution is able to read PIV & PIV-I credentials, however is not FIPS 201 compliant

2 <20 sec for greater than 1 AD-400

3 IPB used in an Event Action Relationship. Function determined by CDVI.

4 When 10 ADH10 controllers are used

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

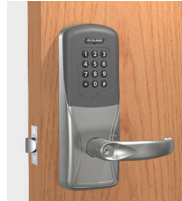
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400)



Cylindrical Lock (AD-300/400)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



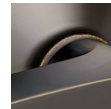
605
Bright brass



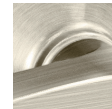
606
Satin brass



612
Satin bronze



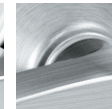
643e
Aged bronze



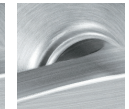
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009535, Rev. 09/17
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal



attendance®
ON DEMAND



Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.

Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enables maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability

Attendance on Demand, Inc.

Attendance on Demand, Inc. offers the popular Schlage HandPunch GT-400 Biometric Time & Attendance Terminal and adds unique communications capabilities and additional features. Attendance on Demand clocks are Internet-ready, allowing employee work times and transactions to be recorded and shared easily with Attendance on Demand. These HTTP-enabled time clocks communicate directly over the Internet with our hosted time and attendance service. They do not require any software installation at your site. These truly plug-and-play time clocks are:

- Quick to install.
- Easy to use, manage, and maintain.
- Reliable for collecting information.

Features and/or clock colors are subject to change without notice.

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. Attendance on Demand is a registered trademark of Attendance on Demand, Inc. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Software specifications

Special features:	<ul style="list-style-type: none">▪ Software as a Service (SaaS) solution▪ Centralized database▪ Hand template management▪ Debug logging▪ Double-punch restriction▪ Automated data synchronization▪ Data encryption▪ Bell scheduling▪ Security access▪ Auxiliary prompt initiation rules▪ Special enrollment▪ Individual employee threshold▪ Template averaging▪ Configurable audio response▪ Capacity: 1000 employees, 5000 transactions, and 3000 schedules
Credential inputs:	<ul style="list-style-type: none">▪ PIN - ID (digit length)▪ Barcode card reader (code 3 of 9, 2 of 7)
Supervisor capabilities:	<ul style="list-style-type: none">▪ Add punch for specific employee▪ Add schedule for specific employee▪ Credit hours for specific employee▪ Credit dollars for specific employee▪ Lift restriction for specific employee▪ Global time restriction for employees▪ Display employee names, badge numbers, and the date and time of each employee's last punch (sorted by employee last name)▪ Display employees who are punched in with their names, badge numbers, and the date and time of each employee's last punch
Employee capabilities:	<ul style="list-style-type: none">▪ Complex data collection (time of day, hours, dollars, workgroup, date, selection list defined at configuration)▪ Callback punch▪ Workgroup transfer▪ Employee review (last punch, schedules, benefit balances, pay designation summaries)▪ Request time off (vacation, sick)▪ Trigger relay▪ Tip entry



ALLEGION™

© 2014 Allegion
009352, Rev. 09/14
www.allegion.com/us



Office and storage room doors

Commercial real estate solutions

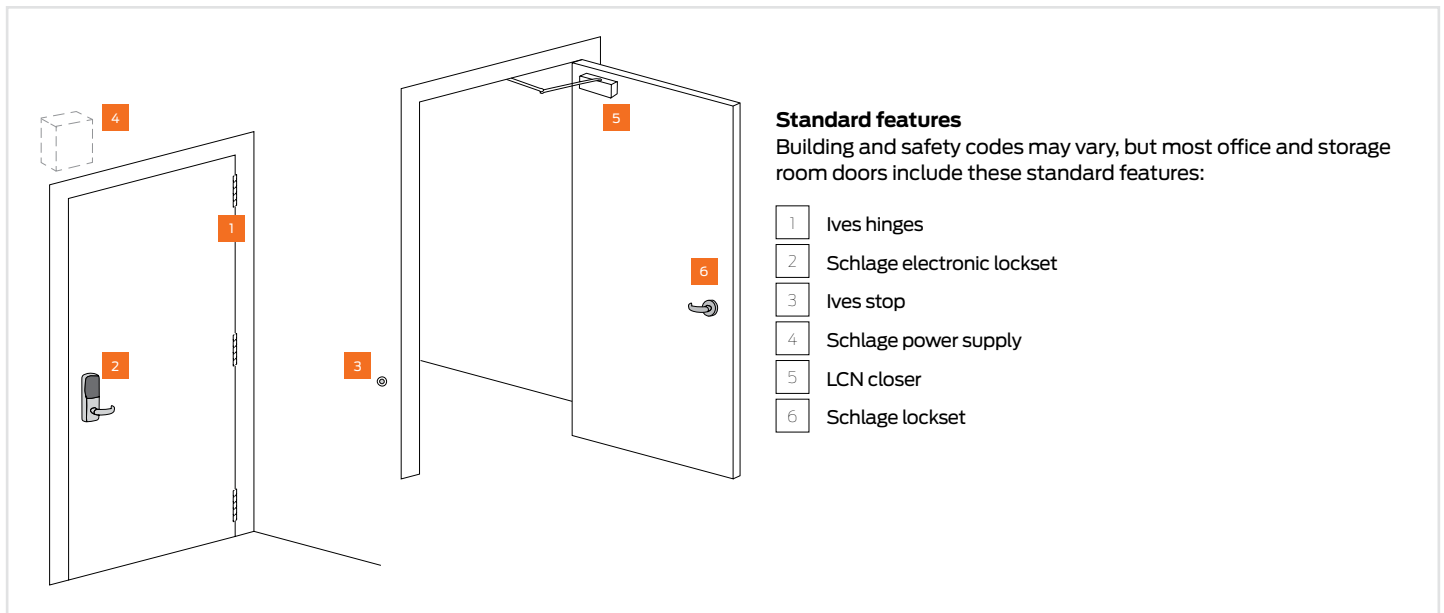


Offices and storage rooms are used constantly throughout the workday. Because these rooms need to be accessible, they must remain unlocked during the workday.

After hours, these openings may be locked, but cleaning or maintenance staff need access to these rooms. Reliable security in these areas requires that you have control of who is granted access in order protect the security of confidential information and personal property.

Office and storage room doors operational requirements:

- Doors are normally unlocked throughout the day
- Doors are secured after work hours
- Access authorized with a valid credential or keypad after hours
- Free egress at all times



Innovative solutions for office or storage room doors

A secure office or storage room includes effective key management to help control access. Allegion has developed physical security solutions specifically for this application.

Schlage® decorative levers

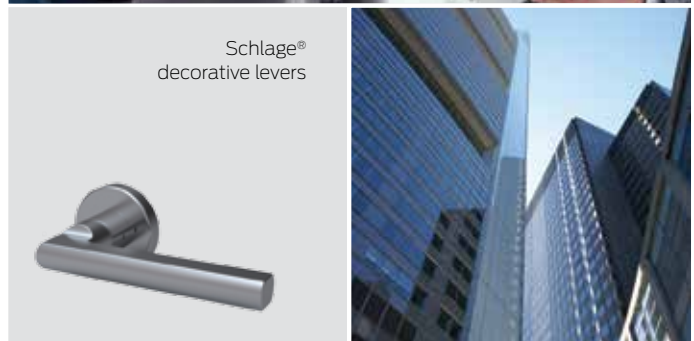
- Decorative lever designs integrate seamlessly into architectural design.
- Stainless steel construction.
- ADA compliant.

Schlage cylinders and key systems

- Full size interchangeable core (FSIC) and small format interchangeable cores (SFIC) offer the convenience of fast rekeying without having to disassemble the lock.
- Cylinders can be changed by any authorized person without having to wait for technical personal.

Schlage CO-Series offline electronic locks offer the convenience, efficiency and security of electronic access control without the cost of integrating to a fully networked system. CO-Series locks can also be integrated with an Everest 29 key system for high security, as well as access control that includes an audit trail of who used the lock and when.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Start
with
Allegion

Call **888-758-9823**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, building security assessments or key systems management

Visit **www.allegion.com/us/industries/commercial**

- Access information for BOMA 360 tools and resources
- Find information about our products and services
- Review case studies and articles about physical security solutions in commercial environments



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009132, Rev. 03/14
www.allegion.com/us



Integrated security solution

with AD-400 wireless and AD-300 hardwired devices and Sielox Pinnacle™ server



Overview

Schlage AD Series locks seamlessly integrate with Sielox Pinnacle Server to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

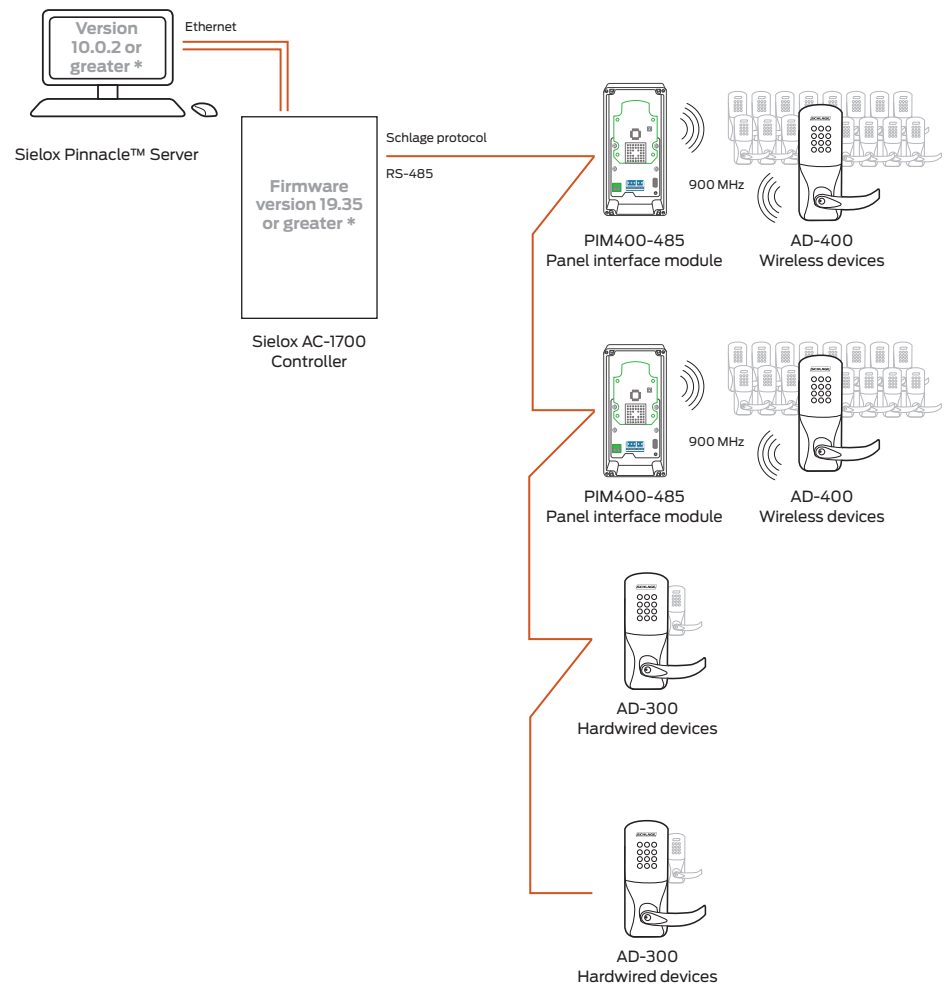
System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400-485 (10 seconds or less) preserves up to 2 year battery life
- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- Sielox AC -1700 controller supports a maximum of 32 AD -400 wireless devices
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 and AD-300 via RS-485 with Sielox Pinnacle™ Software and AC-1700™

- Sielox AC-1700 Controllers have a single RS-485 port that supports up to 16 AD-300 hardwired locks and/or 16 PIM400-485s with up to 32 AD-400 locks. When combining AD-300 and AD-400 locks there is a maximum of 32 total AD locks.

*Older versions of Sielox Pinnacle Software and Firmware will function but will support a different feature set. Please contact Sielox for more information.



Note:

Please refer to AD-400, AD-300 and PIM400-485 data sheets for complete AD Series specifications. Please contact Sielox for Wiegand Solutions.

For additional information contact Sielox: 1.800.424.2126 or info@sielox.com

System capabilities:

	AD-400 PIM400-485	AD-300 Direct RS485
Features		
Maximum number of readers supported by controller/PIM	32	16
Maximum number of readers per PIM400	Up to 16	N/A
Maximum number of PIM400s per RS-485 port	Up to 16	N/A
Access control decision made by host or controller or by lock database	AC-1700	AC-1700
Remote Linking capability via Host	Yes	N/A
Readers - see supported card formats below		
Keypad only	Yes ¹	Yes ¹
Magnetic stripe card	Yes (ABA Tracks 1, 2, 3)	Yes (ABA Tracks 1, 2, 3)
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible	Yes ⁴	Yes ⁴
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	No	No
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes/Yes ²	N/A
Remote lockdown/unlock	Yes (<10 sec) ³	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing		
Please contact Sielox to determine licensing requirements.		

Note: Sielox supports Two Man Rule and Lock Toggle for the AD-300, AD-400, NDE, and LE

Please contact Sielox for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

- 1 If keypad output mode is set to emulate a 26 bit Wiegand card (mode 7)
- 2 View status on the AC-1700 controller's web-enabled Wireless Lock status page
- 3 if > 1 device unlock time is < 20 seconds
- 4 Yes for PIV cards, No PIV-I

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad

Will support Keypad Only if output mode is set to emulate a 26 bit Wiegand card (mode 7)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

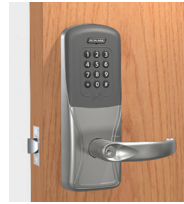
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400/300-MS)



Cylindrical Lock (AD-400/300-CY)



Exit Device Trim (AD-400/300-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



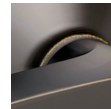
605 Bright brass



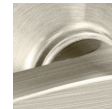
606 Satin brass



612 Satin bronze



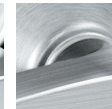
643e Aged bronze



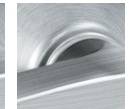
619 Satin nickel



625 Bright chrome



626 Satin chrome



626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005631, Rev. 09/17
www.allegion.com/us

For additional information contact Sielox: 1.800.424.2126 or info@sielox.com



Assembly area doors

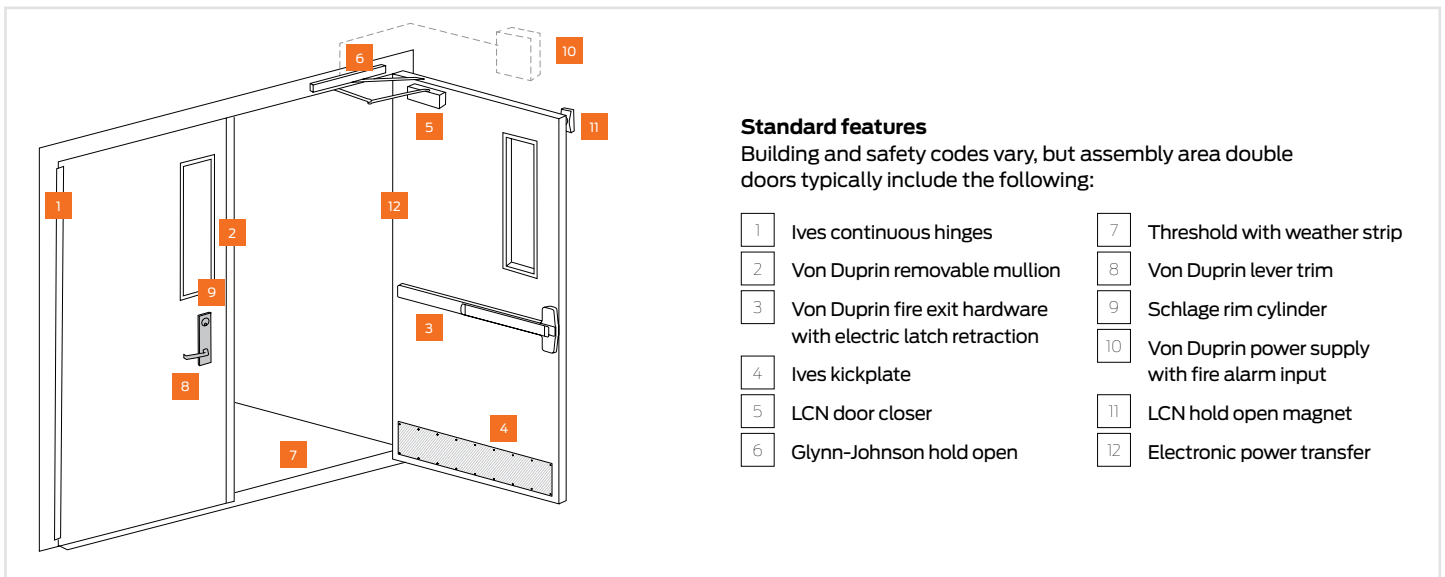
Education solutions

Whether it's an auditorium, cafeteria or assembly hall, double doors in high traffic areas must often accommodate big crowds and stand up to hard use.

And while assembly areas must be accessible on a regular basis, they must also be able to close and latch quickly and reliably when the need arises.

Assembly area door operational requirements:

- Doors are normally unlocked during the day
- Free ingress and egress
- Doors are secured after hours
- Access is gained by valid key
- Free egress is available at all times
- Exit devices are wired to the fire alarm system
- Exit device latchbolts extend upon signal from fire alarm system



Innovative solutions for assembly area doors

Assembly area doors must enable free traffic flow, while also serving as a physical barrier against fire and unauthorized access.

Von Duprin® QEL (Quiet Electric Latch Retraction) exit device

- The QEL option provides electronic control of an exit device and is ideally suited for environments where limited operational noise is desired.
- The specially designed exit device leverages quiet technology to reduce the noise generated by opening and closing the door.
- QEL is an option for 98/99 Series (including XP), 94/95 Series and 33A/35A Series devices.
- The QEL is able to automatically adjust latch throw and pull.
- The QEL also includes on-board installation and troubleshooting.

LCN® auto operators

- Since 1876, LCN has been the leader in the door control.
- LCN products include ADA-compliant automatic door operators, surface and concealed door closers and electronic accessories.
- LCN automatic operators, the proven standard in schools for over 20 years, are easily retrofitted into existing doors and frames.
- LCN low energy electrohydraulic and pneumatic automatic operators have a heavy duty closer with a slow opening function.
- LCN's electromechanical automatic operators utilize a motor gearbox and control box to perform the opening and closing.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Von Duprin®
QEL exit device

LCN®
auto operators



Start
with
Allegion

Call **877-671-7011**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, grant funding or seamless integration with your one card system

Visit **www.allegion.com/us/industries/education**

- Access our online security and safety self-assessment tools
- Find information about our products and services
- Review case studies about how schools and universities are providing easy access and egress for their students while keying in on security



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
005513, Rev. 05/14
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal

WorkForce
SOFTWARE



Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.

Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enable maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability
- Employee self-service kiosk functions
- Real-time communications

WorkForce Software

WorkForce Software is the leader in workforce management software for organizations with complex policies and compliance concerns. Through its EmpCenter® and RosterLive workforce management suites, WorkForce Software enables organizations to fully automate time and attendance processes, effectively manage employee absence and leave, optimize staff scheduling, gain real-time visibility into labor costs and productivity, and mitigate the risks associated with employee fatigue. Hundreds of leading organizations rely on WorkForce Software solutions to streamline compliance, reduce labor costs, provide more intuitive tools to their employees, and achieve strategic HR on a global basis.

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Software specifications

Special features:	<ul style="list-style-type: none">Centralized databaseHand template managementRemote troubleshootingDouble-punch restrictionAutomated data synchronizationForeign language supportTime synchronization/multiple time zones
Credential inputs:	<ul style="list-style-type: none">PIN - ID (digit length)Barcode card reader
Supervisor capabilities:	<ul style="list-style-type: none">Enroll employee hand templateSupervisor punch override
Employee capabilities:	<ul style="list-style-type: none">Department/job transferReview schedulesReview accrual balancesLunch punch lockout (minimum break length)Activity based costingMultiple assignmentsSchedule-based punch restriction

Features and/or clock colors are subject to change without notice.

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009359, Rev. 05/14
www.allegion.com/us



HandKey® II

Integrated with Symmetry™
by AMAG Technology, Inc.



Overview

The Schlage HandKey II biometric HandReader seamlessly integrates with AMAG's Symmetry Security Management Software to provide a secure and convenient biometric access control solution to meet your needs.

Symmetry combines advanced Access Control Software, Door Controllers, Card Readers and network IP Security Cameras into a uniquely powerful Security Management System. Through careful design it is extremely easy to learn and use, making it suitable for any size installation in any market.

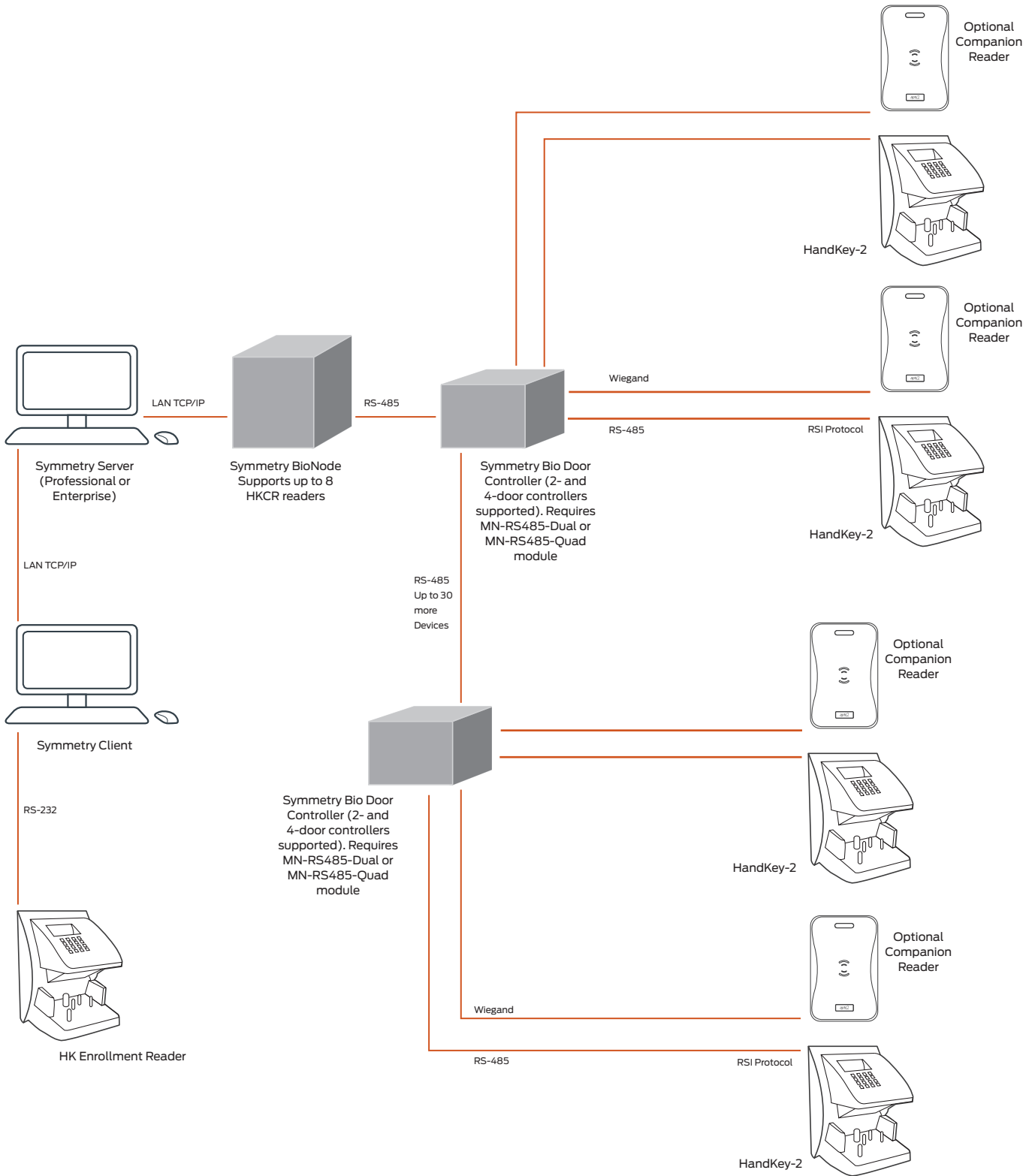
The integration of the HandKey II with Symmetry allows you to add biometric security to critical access points fast, simply, and seamlessly in new and existing systems. The HandKey II measures and verifies the size and shape of a person's hand. Through the use of hand geometry, truly verify who a person is as they access a door. An optional integrated proximity or smart card reader offers multi-factor authentication to provide even higher security for the most critical applications.

Multiple mounting options are available for the HandKey II to suit the requirements of your facility. Optional enclosures provide additional protection in a variety of difficult environments and provide protection from some weather conditions.

Features and benefits

- RS485 communications
- Template management within the access control system
- HandKey II available Reader options with Symmetry:
 - Magnetic stripe
 - Proximity
 - Barcode
 - HID iCLASS®
 - MIFARE®
 - All card readers available with Card + PIN
- Power Requirements: 12 to 24 VDC
- Additional Enclosure Options:
 - FX Enclosure for a degree of protection against dusty, dirty, or rainy environments
 - TX Enclosure for a higher degree of protection against dusty, dirty, or rainy environments
 - When used with an integrated heater option (INT-HTR), either enclosure provides a comfortable heated platen in a cold climate.

System architecture



System Capabilities

Features

Maximum Number of readers supported by Panel	8
Maximum Number of readers supported by door controller	2- and 4-door controllers available
Maximum Number of readers supported by network interface reader	N/A
Maximum Number of devices per RS-485/ RS-422	RS-485 is point-to-point

User Support

Maximum number of users supported	Host 100,000
-----------------------------------	-----------------

Other system requirements

Access control decision maker	Panel
Access decision made when host is not available	Yes
Access decision made when panel is not available to reader	No

Credentials

Keypad	Yes
Card + PIN+ Hand	Yes
Magstripe	Yes
125 kHz Prox Card	Yes
13.56 MHz Smart Card	Yes

Enabled functions

Template Management: Templates are stored in Symmetry database on server/host and in the access control panel. Templates are enrolled through Symmetry client application and HK enrollment reader (RS-232 to the client computer).

Reader Configuration: HandKey readers are configured in the Symmetry User Interface (GUI) including the definition of a threshold value (per reader).

Operation: HandKey requires AMAG version of firmware. When cardholder provides their ID number through card (or keypad), panel determines if the cardholder has access at that date/time/location and if so, sends template to the reader with authenticate command. The match score is returned, and panel determines if the score meets/exceeds threshold.

Remote Verification	Yes
Remote Enrollment	Yes
Special Enrollment	No
Duress Codes	Yes
ID Lockout	Yes
Set Individual User Data	No
Transaction Retrieval	Yes
Beep Commands	No
Custom Function Keys	No

Status monitors

Communication status	Yes
Tamper switch monitoring	Yes

Please contact AMAG Technology at sales@amag.com for additional details on integrated features and credentials supported.

Supported card formats

Proximity cards (125 kHz):

- AWID®
- GE/CASJ®
- HID®
- Schlage®
- XceedID®

Smart cards (13.56 MHz):

- HID iCLASS®
- MIFARE®

Options

The HandKey II from Schlage is built to provide the convenience and added security of a biometric solution to your access control system. Designed with your application in mind, the HandKey II can be configured with a number of options to suit your needs.

Additional Information

For additional information contact AMAG Technology, Inc. at sales@amag.com or visit www.amag.com

Options	Part number	Description
Memory options	EM-801-F3	Field upgradable memory expansion to 9,728 users
	EM-803-F3	Field upgradable memory expansion to 32,512 users
	EM-813-F3	Memory expansion to 64,768 users**
	EM-823-F3	Memory expansion to 129,536 users**
	EM-833-F3	Memory expansion to 194,304 users**
Communication options	EN-200	Field upgradable Ethernet communication module (10baseT)
	MD-500	Field upgradable internal dial up modem communication module
Card reader options	PROX	Externally top mounted HID prox reader**
	SC-100	MIFARE reader, externally side mounted**
	ICLASS	iCLASS reader**
	CR-2	Magnetic stripe reader, wall mountable
	BC-100	Bar code reader, wall mount swipe

**Factor Option Only

Enclosure options

Enclosures are available to protect your HandKey from the elements and to enable use regardless of your environment.



FX Enclosure



TX Enclosure

Mounting options

Schlage offers options to ensure that the HandKey can be mounted in a manner appropriate for your application.



Standard Reader comes with surface wall mount bracket



Table top secure mount for flat surfaces

Allegion, the Allegion logo, Schlage, and the Schlage logo, are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
010041, Rev. 03/14
www.allegion.com/us

For additional information contact AMAG Technology, Inc. at sales@amag.com or visit www.amag.com



Integrated security solution

Schlage Control™ Smart Locks with ENGAGE™ technology integrated with PremiSys™

IDenticard®
ACCESS CONTROL



Overview

Schlage Control™ Smart Locks with ENGAGE™ technology seamlessly integrate with PremiSys™ to provide a cost effective and scalable access control solution to meet your security needs.

Schlage Control™ Smart Locks mark a new era of electronic access control in the multi-family world. By ushering in the next generation of highly scalable, efficiency boosting capabilities, multi-family properties can focus on operating more profitably—and with greater appeal for residents. Designed specifically for the resident unit door, Schlage Control Smart Locks feature a 100% pick- and bump-proof, no-cylinder design that improves security and safety.

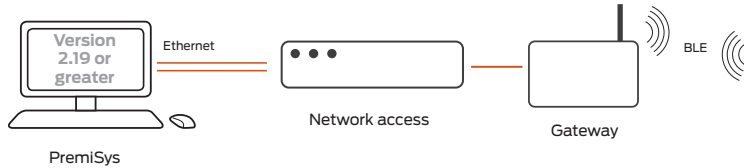
The PremiSys - Schlage Control Smart Lock integration provides full system management for an unlimited number of locks across a network. It communicates directly with locks via the GWE Gateway. Combining the features of an enterprise access control system with the convenience of the Schlage Control Smart Locks, PremiSys provides detailed auditing reports, integration with video management systems, full-featured credential creation and management, and a mobile app for remote badging enrollment.

PremiSys also supports Schlage AD and NDE Series locks allowing you to combine all lock platforms into a single solution.

System Capabilities

- PremiSys
 - Managed in real time with detailed audit report options
 - Mobile app for property managers to remotely create and manage credentials
 - Single platform to manage entire facility
 - Video integration options
- Schlage Control™ Smart Lock
 - aptiQ MIFARE smart credentials
 - Deadbolt and interconnect designs available
 - Up to 500 users
 - Up to 2 years of battery life
 - 90 minute UL Listed A 156.12 Grade 2 ANSI/ BHMA certified

Schlage Control Smart Locks with Gateway via IP (POE)



- PremSys is capable of supporting an unlimited quantity of Control Smart Locks
- PremSys is capable of supporting an unlimited number of Gateways

System capabilities:	Schlage Control Smart Locks with Gateway via IP (POE)
System capacity	
Maximum number of locks supported via network access	Unlimited
Maximum number of users per lock	500 per lock
Update frequency	Real-time updates and audit reporting ¹
Maximum number of gateways	Unlimited
Maximum number of Schlage Control Smart Locks per gateway ²	10
Access control decision made by	Lock database
Remote linking capability via Host	Yes
Remote unlinking capability via Host	Yes
Credentials	
13.56 MHz Smart Credentials ³	aptiQ™ MIFARE Classic aptiQ™ MIFARE DESFire™ EV1
Status monitors	
Battery voltage level	Yes
Credential attributes	
Normal credential	Yes
Toggle credential	Same function as Normal
Pass through credential	Yes
Visitor/one-time use credential	No
Freeze credential	Yes
Block	Yes

1 Each Control lock can hold 1,000 audit events.
 2 The gateway supports a total of 10 ENGAGE enabled devices. This can be a combination of resident and common area locks. For information on common area locks consult the NDE Series wireless lock solution sheet.
 3 Please contact Allegion for additional details on integrated features and credentials supported.

Allegion, the Allegion logo, aptiQ, Schlage, the Schlage logo, ENGAGE Technology, and the ENGAGE Technology logo are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

For additional information contact IDenticard Access Control 855-367-4721 or www.identicard.com

About Allegion™

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit www.allegion.com.

aptiQ ■ FALCON ■ IVES ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN





Integrated security solution

with AD-400 wireless devices and Frontier Integrated Platform



Overview

Schlage AD Series locks seamlessly integrate with the Frontier Integrated Platform to provide a cost effective and scalable access control solution to meet your security needs.

Frontier™ offers advanced access control, alarm monitoring, digital video, intrusion detection, credential production, and employee and visitor management functionality. Frontier™ offers the user a choice of seamless integrations with some of the industry's most widely adopted solution providers.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

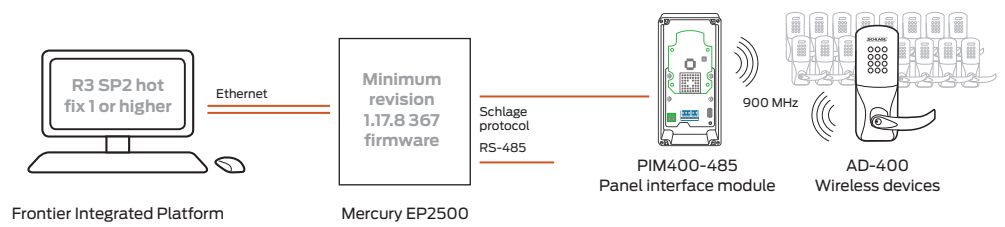
AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400-485 (in 10 seconds or less) preserves up to 2 year battery life
- Frontier Integrated Platform can support:
 - up to 160 Wiegand AD-400 locks via 80 RCM2 and MIB reader interfaces
 - 64 AD-400 locks via the Mercury EP2500
 - 2 AD-400 locks via the Mercury EP1502
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

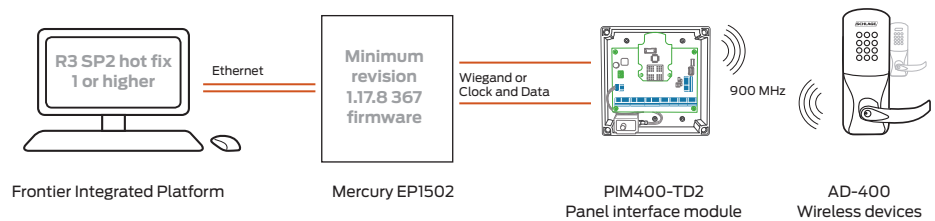
AD-400 via RS-485 with Frontier and EP2500

- EP2500 supports up to 64 AD-400 locks total
- EP2500 supports a maximum of 8 PIM400-485 per RS-485 port. There are 2 ports on each EP2500.
- Wireless range up to 200' in typical building construction, 1000' clear line of sight.



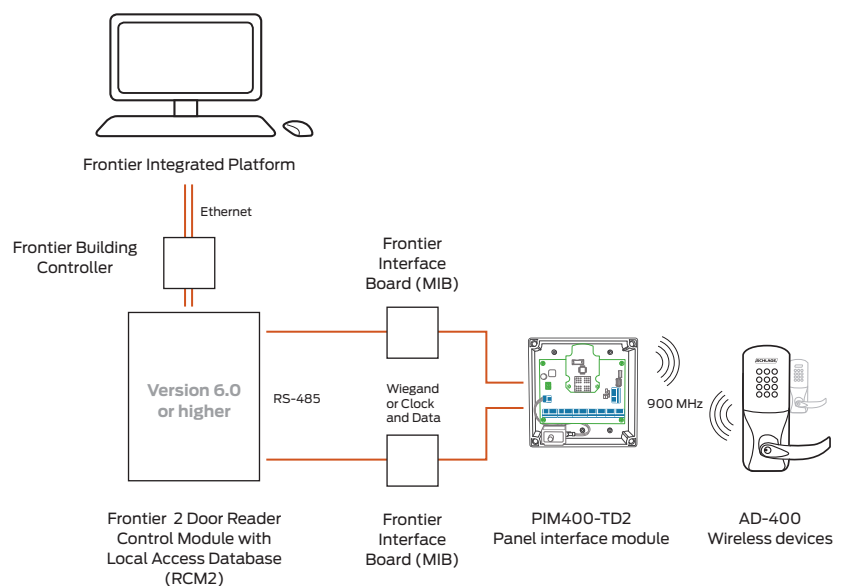
AD-400 via Wiegand with Frontier and EP1502

- EP1502 supports up to 2 AD-400 locks total via 1 or 2 PIM400-TD2
- Wireless range up to 200' in typical building construction, 1000' clear line of sight.



AD-400 via Wiegand with Frontier Building Controller

- Frontier Building Controller supports up to 160 AD-400 locks across up to 80 Frontier 2 Door Reader Control Modules and Local Access Data base (RCM2) via up to 160 Frontier Interface Board (MIB) and across up to 160 PIM400-TD2.
- Wireless range up to 200' in typical building construction, 1000' clear line of sight.



Note:

Please refer to AD-400, PIM400-485, PIM400-TD2, WPR400, and WRI400 data sheets for complete AD Series Specifications

For additional information contact Frontier: 1.800.562.8749 or frontier-security.com

System capabilities:

	AD-400 PIM400-485 (EP2500)	AD-400 PIM400-TD2 (EP1502)	AD-400 PIM400-TD2 (FBC)
Features			
Maximum number of readers supported by controller/PIM	64	2	160
Maximum number of readers per PIM400	16	2	2
Maximum number of PIM400s per RS-485 port	Up to 8	Up to 8	Up to 8
Access control decision made by host or by lock database	Host	Host	Host
Remote Linking capability via Host	No	No	No
Readers - see supported card formats below			
Keypad only	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible	No	No	No
Card + PIN	Yes	Yes	Yes
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	No	No	No
Request to enter	No	No	No
Low battery status	Yes	No	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes/Yes
Remote lockdown/unlock ¹	Yes (<10 sec) ¹	Yes (<10 sec) ^{1,2}	Yes (<10 sec) ^{1,2}
Deadbolt position	No	No	No
Interior push button	No	No	No
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Licensing			
Please contact Frontier to determine licensing requirements.			

Please contact Frontier for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ For greater than 1 device will be <20 sec

² Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

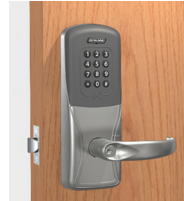
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



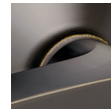
605
Bright brass



606
Satin brass

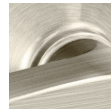


612
Satin bronze



643e
Aged bronze

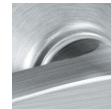
Cool tone finishes



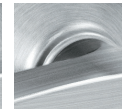
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009013, Rev. 09/17
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and RS2 Access It! Universal.NET



Overview

Schlage® NDE or LE locks with ENGAGE™ technology seamlessly integrate with RS2 Access It! Universal.NET to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

RS2 Access It! Universal.NET also supports AD Series locks allowing you to combine both lock platforms into a single solution.

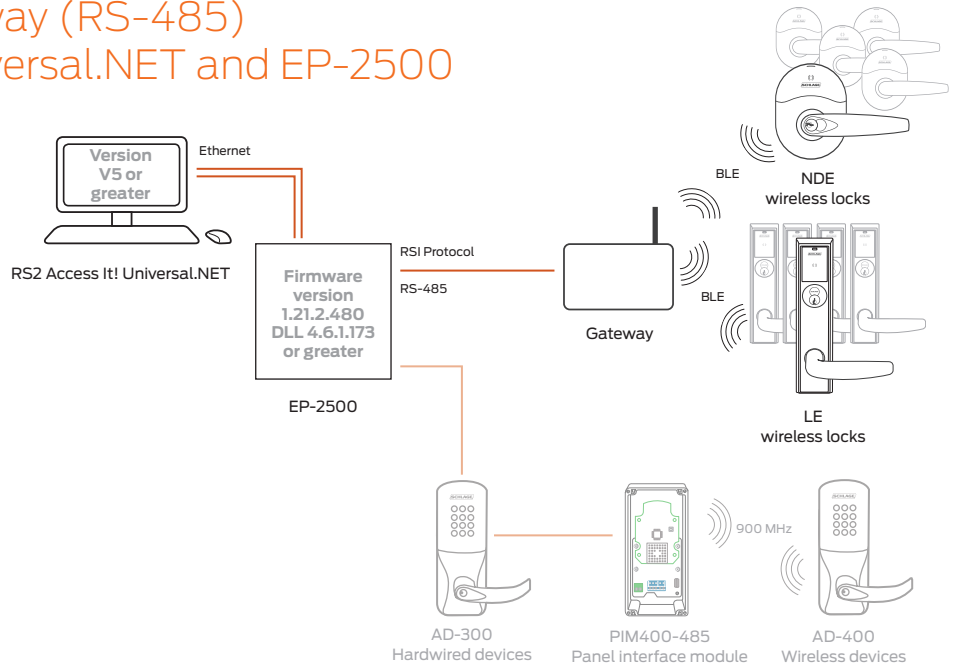
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with RS2 Access It! Universal.NET and EP-2500

- EP-2500 supports up to 64 NDE and LE locks total combined
- EP-2500 supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each EP-2500
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

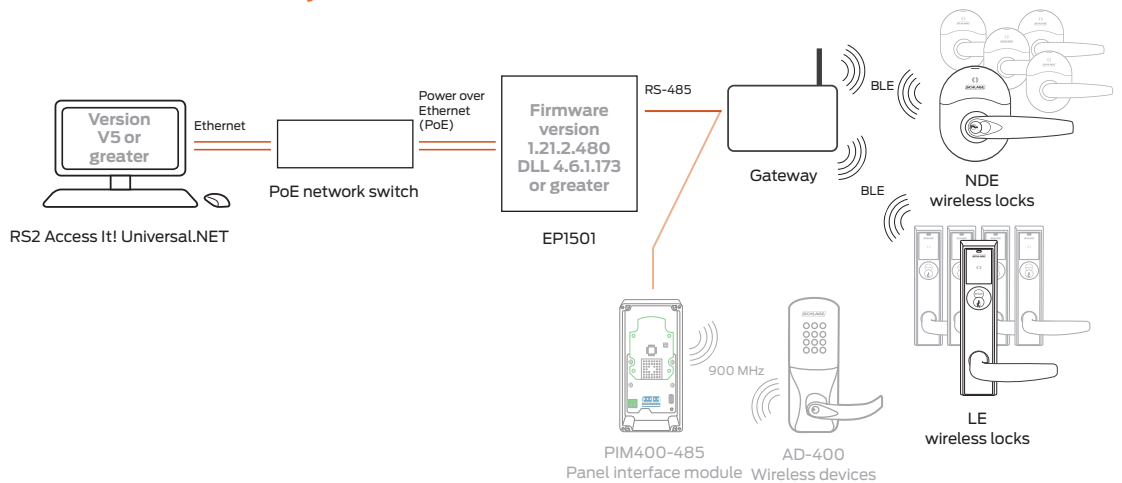
* Reference ENGAGE Gateway data sheet for additional details.



NDE/LE locks via EP1501/Gateway

- EP1501 supports up to 16 NDE/LE combined and or AD-400 locks combined
- The EP1501 supports a maximum of 8 gateways or PIM400-485*
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See RS2 AD Series solution sheet for additional details.

Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE/LE locks via RS485 Gateway (EP2500)	NDE/LE locks via GWE RS-485 EP1501
Features		
Maximum number of locks supported by controller	64	16
Maximum number of locks supported via network access	N/A	N/A
Maximum number of gateways per controller/Host	8 per RS-485 port	8
Maximum number of NDE/LE locks per gateway	10	10
Access control decision made by Host software or by lock database	Host	Controller
Remote linking capability via Host	Yes	Yes
Update frequency	N/A	N/A
Schedules	Yes	Yes
Holiday	Yes	Yes
Credentials		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	No	No
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	No	No
Request to enter	No	No
Low battery status	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)
Interior push button (LE only)	Yes - LE	Yes - LE
Deadbolt position (LE only)	Yes - LE	Yes - LE
Lock functions		
Classroom/storeroom	Yes	Yes
Office (LE only)	Yes - LE	Yes - LE
Privacy (LE only)	Yes - LE	Yes - LE
Apartment (LE only)	Yes - LE	Yes - LE
Licensing		
Please contact RS2 to determine licensing requirements		

Please contact RS2 for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

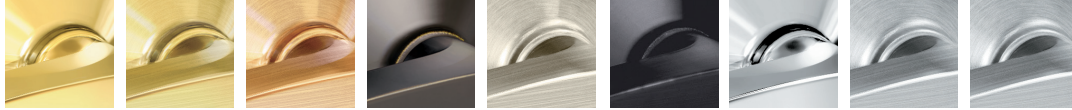
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011283, Rev. 12/17
www.allegion.com/us



Integrated security solution

with AD-400/401 wireless locks and AD-300/301 hardwired locks with System Galaxy Software



Overview

The AD Series electronic locking platform is designed to be open and flexible. With its open architecture, the AD Series can be seamlessly integrated into the System Galaxy Software with 600/635 Series controllers and DSI/DPI boards.

Schlage AD Series electronic locks combine the components typically found around the door; such as the reader, door position switch and the request-to-exit switch into one device; which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

Schlage AD Series electronic locks are available in hardwired and wireless configuration. For new construction, the AD-300 hardwired locks provide all of the benefits of a traditional access control solution. For existing facilities, the AD-400 wireless locks provide real time access control without having to run wires direct to each opening. Both AD Series Locksets work seamlessly with the Galaxy Software and traditional door controllers and readers.

The AD Series can be customized with three (3) different credential reader options including keypad, magnetic stripe, and multi-technology which can read both proximity and smart cards. Designed to be modular, readers can easily be upgraded in the future to meet your changing credential needs.

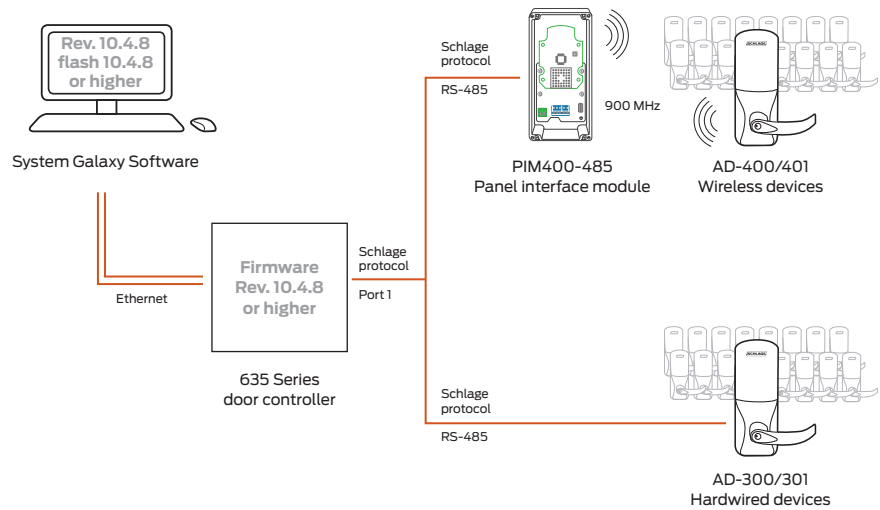
AD-401 and AD-301 FIPS 201-1 compliant solutions available using FMK reader. Existing AD-400 locks can be upgraded to FIPS compliant solutions by replacing existing reader with new FMK reader. Please contact Galaxy to confirm they are able to support your FIPS 201 credential format.

System Capabilities Summary

- AD-400 wireless applications:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Patent pending wireless lockdown /unlock feature in 10 seconds or less; preserves up to 2 year battery life
 - Powered by four (4) standard off-the-shelf AA batteries
- AD-300 hardwired applications:
 - Field configurable fail safe/fail secure
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

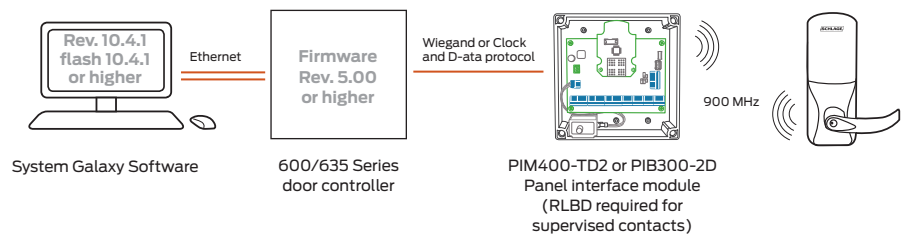
AD-400/401 via PIM400-485 or AD-300/301 via direct RS-485 connection

- 635 supports a maximum of 11 DSI boards with 2 ports each and a maximum of 64 devices depending on Galaxy enclosure selected
- Each DSI channel (2 total/per board) will support up to 16 PIM400-485s daisy chained and up to 16 AD-400 or AD-300 locks per channel
- Up to 16 AD-400/401s and/or AD-300/301s can be managed collectively on a single controller
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



AD-400/401 via PIM400-TD2 or AD-300/301 via PIB300-2D

- 600/635 supports a maximum of 11 DPI and 22 devices depending on Galaxy enclosure selected.
- Each DPI can support up to 2 AD-400/401s and/or AD-300/301 combined distributed across one or two PIM400-TD2 or PIB300-2D
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-485, PIB300-2D, and PIM400-TD2 data sheets for complete AD Series specifications..

System capabilities:

	AD-400/401 PIM400-485	AD-400/401 PIM400-TD2	AD-300/301 Direct RS-485	AD-300/301 PIB300-2D
Features				
Maximum number of readers supported by controller/PIM/PIB	64	22	64	32
Maximum number of readers per PIM400/PIB300	Up to 16	Up to 2	N/A	Up to 2
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 16 (DSI board)	Up to 2 (DPI board)	Up to 16 (DSI board)	Up to 2 (DPI board)
Access control decision made by host or by lock database	Host	Host	Host	Host
Remote Linking capability via Host	Yes	Yes	N/A	N/A
Readers - see supported card formats below				
Keypad only	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes
Card + PIN	No	No	No	No
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	No	No	No	No
Request to enter	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS485	Yes /Yes	Yes /Yes	NA/Yes	NA/Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ^{2,3}	Yes	Yes
Deadbolt position	No	No	No	No
Interior push button	Yes	No	Yes	No
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes
Office	Yes	Yes	Yes	Yes
Privacy	Yes	Yes	Yes	Yes
Licensing Please contact Galaxy Control Systems to determine licensing requirements.				

Please contact System Galaxy Software for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

- 1 FIPS 201 compliant option available: The AD Series can be used in applications which require approval by the US Federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 or AD-301 data sheet for complete details. Contact Galaxy to confirm they are able to support your FIPS 201-1 credential format.
- 2 For >1 device will be <20 sec
- 3 Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

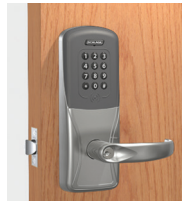
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



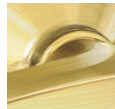
Tubular

Finishes

Warm tone finishes



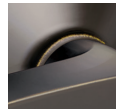
605
Bright brass



606
Satin brass

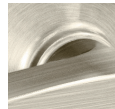


612
Satin bronze



643e
Aged bronze

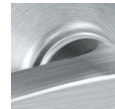
Cool tone finishes



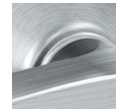
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005134, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-300/301 hardwired, AD-400/401 wireless devices and with AccessNsite's IT centric Security Solutions

AccessNsite®



Overview

Schlage AD Series locks seamlessly integrate with AccessNsite to provide a cost effective and scalable access control solution to meet your security needs.

AccessNsite integrates access control, intrusion detection, and video surveillance. AccessNsite's flexibility allows it to work with multiple operating systems and support multiple databases.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

AD-301 and AD-401 FIPS 201-1 compliant solutions are available using the FMK readers. Existing AD-300 and AD-400 locks can be upgraded to FIPS compliant solutions by replacing an existing reader with new a FMK reader. Please contact AccessNsite to confirm they will be able to support your FIPS 201 credential format.

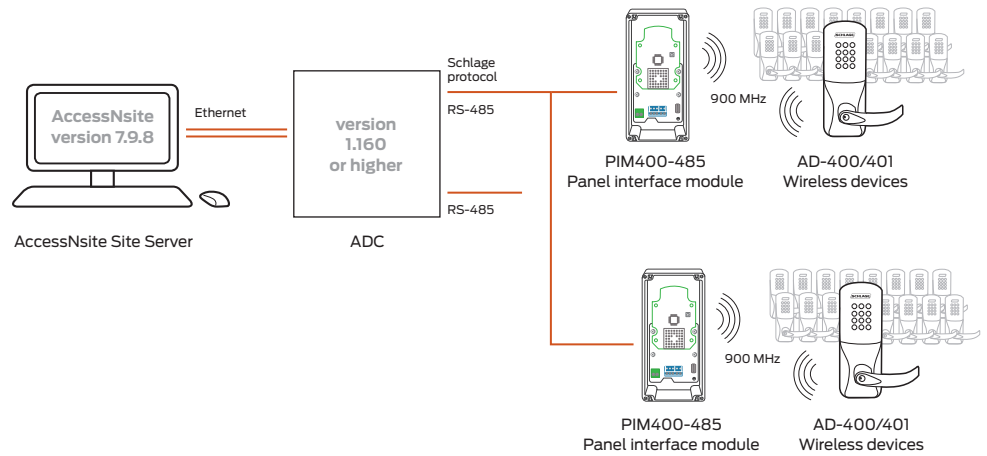
System Capabilities Summary

- AccessNsite system capabilities:
 - Open platform access control system
 - Non-proprietary Mercury Security panels
 - Scalable to virtually unlimited controllers, doors and clients
 - Integrates with other systems through our Web-Services API
 - Video, Graphic Maps, Credential and Personnel Management
- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real-time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400-485/PIM400-1501 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- WPR400, Wireless Portable Reader and WRI400, Wireless Reader Interface also available.
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400/401 via RS-485 with AccessNsite and ADC

- ADC supports up to 64 total locks
- ADC supports a maximum of 16 PIM400-485s (8 per port)
- Wireless range up to 200' in typical building construction, 1000' clear line of sight.

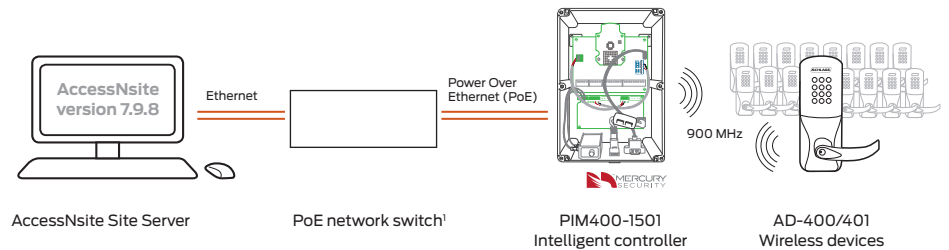
Note: While not specifically shown the ADC can support both AD-300/301s and AD-400/401s in the same system and on a common port.



AD-400/401 via PIM400-1501 with AccessNsite

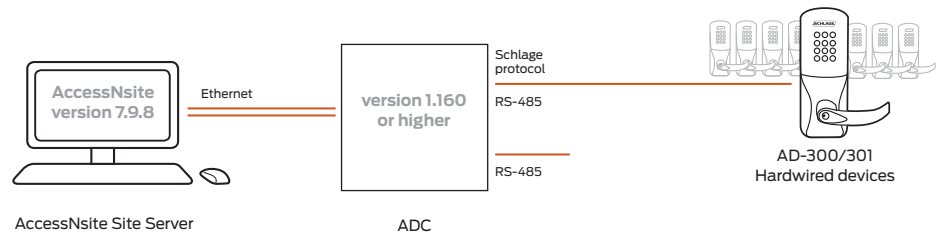
- PIM400-1501 supports up to 16 AD-400/401 wireless locks
- Wireless range up to 200' in typical building construction, 1000' clear line of sight.

1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300/301 via RS-485 with AccessNsite and ADC

- Supports a maximum of 16 AD-300/301 hardwired locks (8 per port)



Note:

Please refer to AD-400, AD-401, PIM400-485, PIM400-TD2, PIM400-1501, AD-300, AD-301 and PIB300-2D data sheets for complete AD-Series specifications. Please consult AccessNsite for Wiegand solutions.

For additional information contact AccessNsite at: 1.877.815.5511

System capabilities:

	AD-400/401 PIM400-485	AD-400/401 PIM400-1501	AD-300/301 Direct RS-485
Features			
Maximum number of readers supported by controller/PIM	64	16	16
Maximum number of readers per PIM400	up to 16	Up to 16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 Port	Up to 8	N/A	Up to 8
Access control decision made by host or by lock database	Host	Host	Host
Remote linking via Host or HHD	HHD	HHD	N/A
Readers - see supported card formats below			
Keypad only	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes
Request to enter	No	No	No
Low battery status	Yes	Yes	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes
Deadbolt position	No	No	No
Interior push button	No	No	No
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Licensing Please contact AccessNsite to determine licensing requirements.			

Please contact AccessNsite for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

- 1 FIPS 201 Compliant Option: The AD-Series can be used in applications which require approval by the US Federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-301 and AD-401 data sheets for complete details. Contact AccessNsite to confirm they are able to support your FIPS 201-I credential format.
- 2 For greater than 1 device will be <20 sec.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

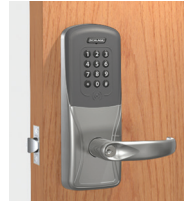
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



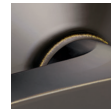
605
Bright brass



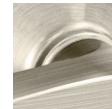
606
Satin brass



612
Satin bronze



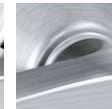
643e
Aged bronze



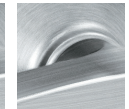
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005633, Rev. 09/17
www.allegion.com/us

For additional information contact AccessNsite at: 1.877.815.5511



Emergency exit doors

Commercial real estate solutions

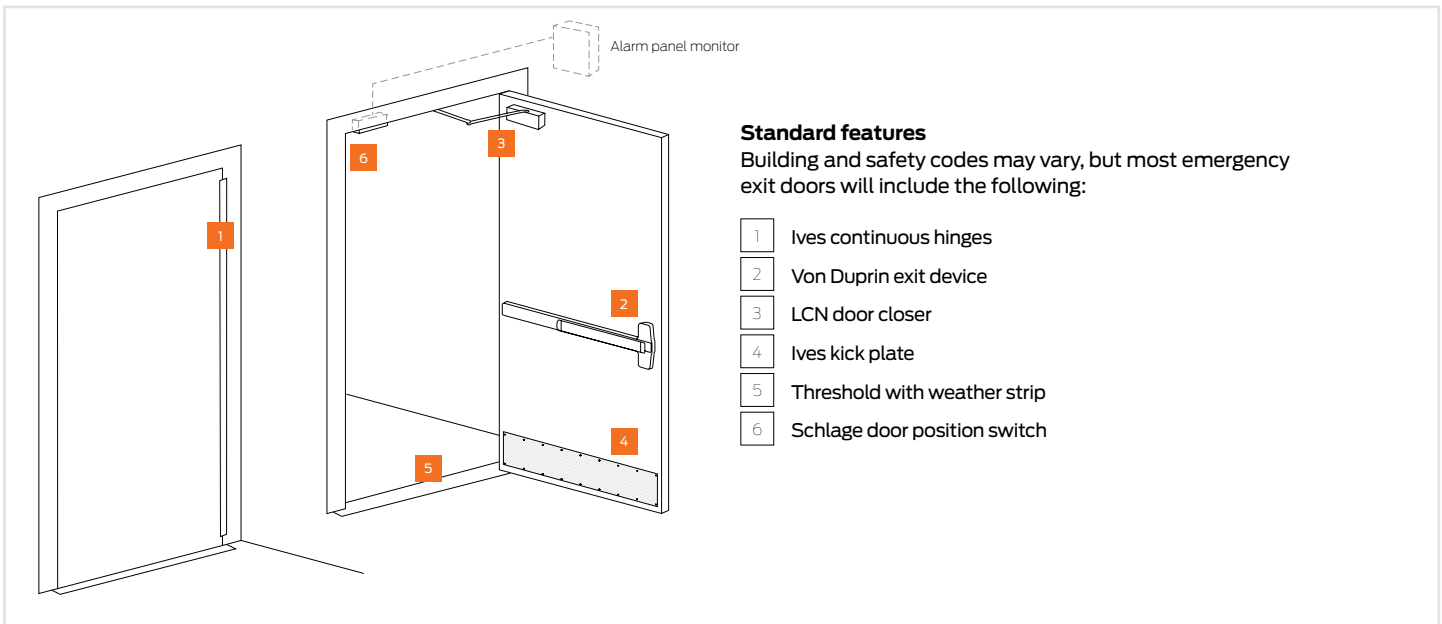


Emergency exits are one of the most important openings in a building. Employees and visitors must be able to easily evacuate in the event of an emergency.

These doors also must be compliant with building, fire and ADA codes. Since they are perimeter doors, the security of your emergency doors can impact the security of your entire building.

Emergency exit door operational requirements:

- Doors are normally locked
- Access is gained by a valid credential or keypad
- Free egress is available at all times



Innovative solutions for emergency exit doors

A safe and secure emergency exit door includes these smart and innovative solutions exclusively from Allegion:

LCN® Sentronic® closers/holders

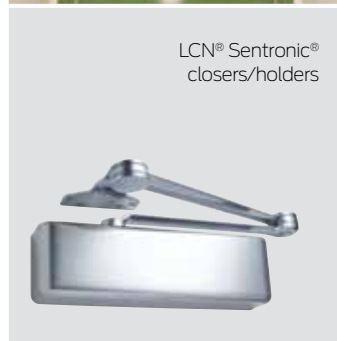
- Automatic detection and containment of fire and smoke are the best ways to minimize danger to life and property.
- Patented Sentronic door closer/holders are designed to hold swinging doors open in normal use, and release and automatically close the doors under fire conditions.
- Conform to major building codes and life safety codes.

Von Duprin® exit device with Safety Glow

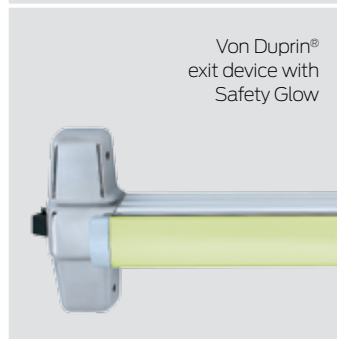
- In the event of an emergency, facilities can lose power or hallways can fill with smoke making exit devices and signs difficult to see. Safety Glow provides an additional level of visual identification in the event of an emergency.
- Requiring no batteries or electronics, the coating is charged when exposed to light enabling it to show exit door locations in darkness or smoky conditions.
- Developed to meet MEA standards.
- Available on 98/99 and 33A/35A Series exit devices.

Hardware devices of this type are often the subject of inexpensive, poor quality knock-offs—built with sub-standard manufacturing causing them to perform poorly—compromising safety and security. Look for the Von Duprin or LCN name on your product to ensure you are getting hardware you can trust.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



LCN® Sentronic® closers/holders



Von Duprin® exit device with Safety Glow



Start with Allegion

Call **888-758-9823**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, building security assessments or key systems management

Visit **www.allegion.com/us/industries/commercial**

- Access information for BOMA 360 tools and resources
- Find information about our products and services
- Review case studies and articles about physical security solutions in commercial environments



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009134, Rev. 03/14
www.allegion.com/us



Integrated security solution

bright blue® and
AD Series electronic locks

VANDERBILT



Overview

Looking for a security solution that is affordable, flexible and easy to install and manage? Vanderbilt Industries **bright blue®** and Schlage have teamed up to provide web-based access management with integrated electronic locks to deliver a cost effective solution ideal for small to medium sized facilities.

With the **bright blue®** access control system from Vanderbilt Industries, changes such as adding or deleting users can be made from virtually any laptop or desktop computer. The **bright blue®** system features a user friendly interface, standardized reports and video integration; your system can be up and running in no time at all.

Installation of the hardware is simplified since Schlage AD Series integrated locks combine all of the components typically found around the door, such as the credential reader door position switch and the request-to-exit switch. Designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

By electronically scheduling lock and unlock times you will improve security and productivity. By issuing electronic credentials, like aptiQ™ smart cards, you not only know who gained access where and when but you reduce the costs associated with re-keying. When you invest in electronic access control within your facility you increase security, add convenience and save money over time.

AD-301 and AD-401 FIPS 201-1 compliant solutions available using FMK readers. Existing AD-300 and AD-400 locks can be upgraded to FIPS compliant solutions by replacing existing reader with new FMK reader. Please contact Vanderbilt to confirm they will be able to support your FIPS 201 credential format.

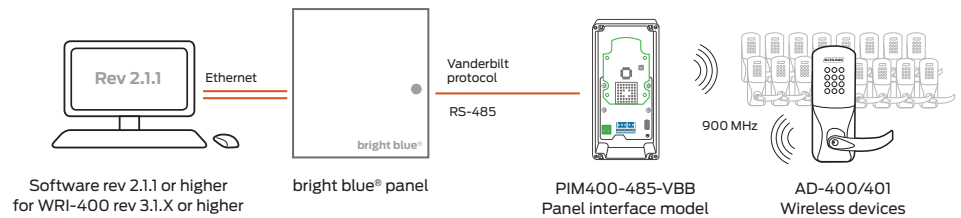
System Capabilities Summary

- **bright blue®** supports up to 32 doors and up to 5,000 users
 - Convenient web-based application
 - Remote access and administration
 - No software to install and no dedicated PC required
 - Includes 2 on-board reader interfaces for direct connect
 - Holiday and event scheduling
 - Facility lockdown via credential or external push-button
 - Event notification via email and text
 - Degraded mode
 - Video management options
- For AD-400 wireless applications:
 - Communicates to the **bright blue®** controller via PIM400-485-VBB (RS-485); each supports up to 16 devices
 - 900 MHz communication between AD-400 and PIM400 for secure, encrypted transmission
 - Patent-Pending Wireless Lockdown feature (10 seconds or less) preserves 2 year battery life
- For AD-300 hardwired applications:
 - Directly communicates via RS-485 connection to the **bright blue®** panel
- Additional details on readers supported and chassis types available on page 3 and 4
- Supports classroom/storeroom function
 - Office function supported with RS-485 connection only
- AD Series: ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400/401 via RS-485 with bright blue®

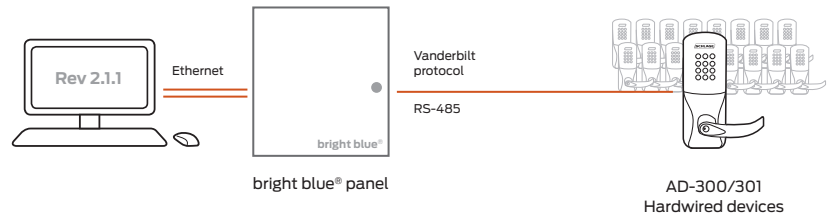
- **bright blue®** controller supports up to 32 RS-485 devices (AD-300/301 and AD-400/401 combined)
- **bright blue®** controller supports a maximum of 16 PIM400-485-VBB per RS-485 port
- There are 32 RS-485 ports on each **bright blue®** controller
- Wireless range up to 200' in typical building construction, up to 1000' line of sight

Note: Although not specifically shown, both AD-300/301s and AD-400/401s can be managed on a common RS-485 port.



AD-300/301 via RS-485 with bright blue®

- **bright blue®** controller supports up to 32 RS-485 devices (AD-300/301 and AD-400/401 combined)
- **bright blue®** controller supports a maximum of 16 PIM400-485-VBB per RS-485 port
- There are 32 RS-485 ports on each **bright blue®** controller



Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-485, WPR400, WRI400 data sheets for complete AD Series specifications.

System capabilities:

	AD-400/401 PIM400-485-VBB	AD-300/301 Direct RS-485
Features		
Maximum number of readers supported by controller/PIM	32	32
Maximum number of readers per PIM400	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 Port	Up to 16	Up to 16
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes (up to 32 bits smart card)	Yes (up to 32 bits smart card)
PIV & PIV-I card compatible ¹	Yes	Yes
Card + PIN	Yes (up to 4 digit PIN)	Yes (up to 4 digit PIN)
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes ³	Yes ³
Request to enter	Yes	No
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes/Yes	Yes
Remote lockdown/unlock	Yes (<10 sec) ²	Yes
Deadbolt position	Yes ^{2,3}	Yes ^{2,3}
Interior push button	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Office/toggle	Yes ^{2,3}	Yes ^{2,3}
Privacy	Yes ^{2,3}	Yes ^{2,3}
Apartment	Yes ^{2,3}	Yes ^{2,3}
Licensing	Please contact Vanderbilt Industries to determine licensing requirements.	

Please contact Vanderbilt Industries for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 FIPS 201 compliant option available requires FMK reader: the ad-series can be used in applications which require approval by the US Federal government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 and AD-301 data sheets for complete details. Contact Vanderbilt to confirm they are able to support your FIPS 201 credential format.

2 Requires RS-485 connection to bright blue controller.

3 Enhanced features that are only available in the upgraded versions of bright blue v2.1.1 or higher.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

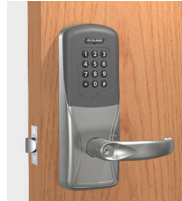
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400)



Cylindrical Lock (AD-300/400)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



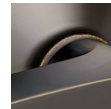
605
Bright brass



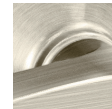
606
Satin brass



612
Satin bronze



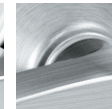
643e
Aged bronze



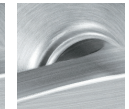
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005082, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400 wireless devices and Keyscan Aurora



Overview

The Keyscan CA150WLKT is a combination product that features a CA150WL access control unit and a PIM400-485 wireless lock interface from Schlage. Together, they allow integration with up to eight (8) Allegion AD400 series wireless locks on a new or existing Keyscan access control system.

The Keyscan CA150WL is Keyscan's PoE equipped access control unit designed for this wireless application. This ACU interface receives and authenticates credential data transmitted from the PIM400-485 and responds with access granted or denied based on the permissions criteria set in Keyscan Aurora access control management software. A condensed size unit, the Keyscan CA150WL can be installed virtually anywhere. It is easily connected to your LAN/WAN network and can be powered using PoE (where available). If PoE is not available a 12VDC input option is provided.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

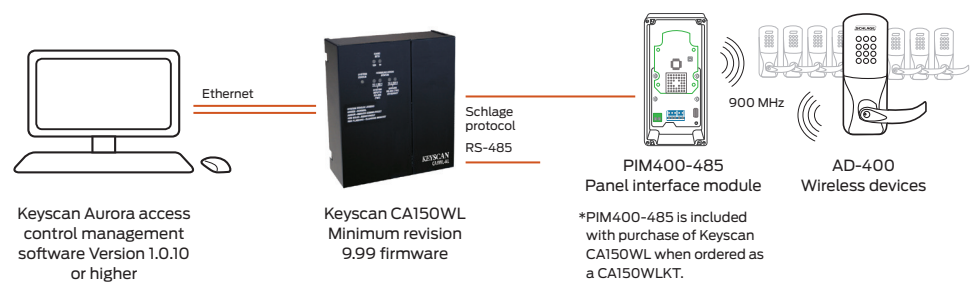
AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400-485 (in 10 seconds or less) preserves up to 2 year battery life, Consult Keyscan before use.
- The Keyscan CA150WLKT includes 1: Keyscan CA150WL-AL and 1 PIM400-485 to support up to 8 AD-400 wireless locks
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with Keyscan CA150WLKT

- The Keyscan CA150WLKT contains one Keyscan CA150WL and 1 PIM400-485 and will support up to 8 AD-400 wireless locks
- The Keyscan CA150WL is capable of being PoE or powered via an external DC power supply.
- Wireless range up to 200' in typical building construction, 1000' clear line of sight.



Note:

Please refer to AD-400 , PIM400-485, and WPR400, data sheets for complete AD Series Specifications

For additional information contact Keyscan: keyscan.ca or 888-539-7226

System capabilities:

AD-400
PIM400-485

Features

Maximum number of readers supported by controller/PIM	8
Maximum number of readers per PIM400	8
Maximum number of PIM400s per RS-485 port	1
Access control decision made by host or by lock database	Host
Remote Linking capability via Host	No

Readers - see supported card formats below

Keypad only	Yes (up to 5 digits)
Magnetic stripe card	No
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes
PIV & PIV-I card compatible	No
Card + PIN	Yes

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	No
Request to enter	No
Low battery status	Yes
Communication status: RF/RS-485	Yes/Yes
Remote lockdown/unlock ¹	Yes (<10 sec) ¹
Deadbolt position	No
Interior push button	No

Lock functions

Classroom/storeroom	Yes
---------------------	-----

Licensing

Please contact Keyscan to determine licensing requirements.

Please contact Keyscan for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ Requires AD-400 firmware version AD.A.71 or greater. Consult with Keyscan before use

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card
- KEYPAD



Multi-technology

- Proximity
- Smart card



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

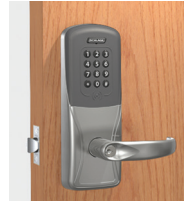
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



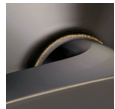
605
Bright brass



606
Satin brass

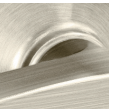


612
Satin bronze



643e
Aged bronze

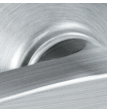
Cool tone finishes



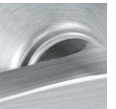
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
010802, Rev. 09/17
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and Kastle Systems



Overview

Schlage® NDE or LE locks with ENGAGE™ technology seamlessly integrate with Kastle Systems to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

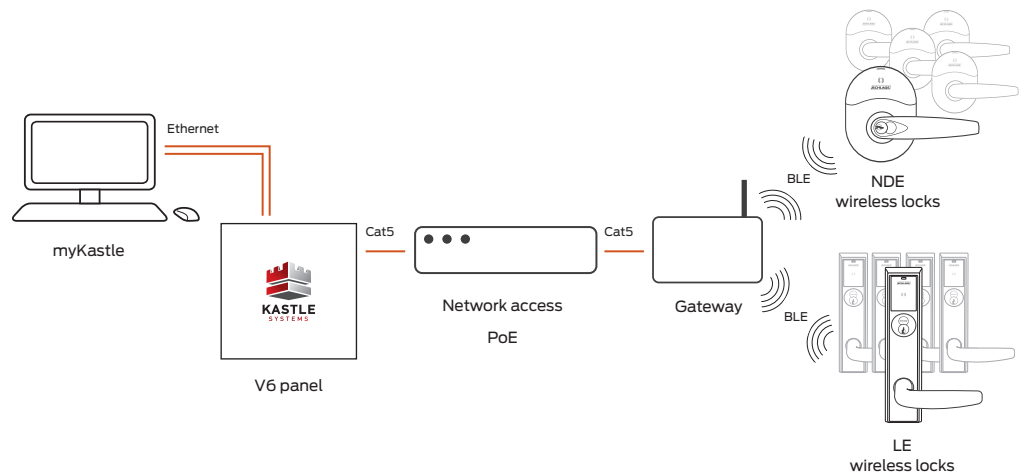
Kastle and Schlage have partnered to simplify the availability of electronic access control to interior and office door locks throughout your facility. Enhanced security has never been more convenient, affordable and accessible as it extends into common building areas and office suites, all fully integrated with your Kastle access control system. Real-time management, simplified installation, unprecedented security and future-ready technology all delivered and supported by Kastle Systems.

System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy and office functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via IP with myKastle and V6

- The Kastle V6 series panel with myKastle supports the NDE or LE products
- Each ENGAGE Gateway can support up to 10 NDE or LE wireless locks²
- Each network switch can support up to 4 gateways
- Each V6 panel can support up to 10 gateways (100 NDE and/or LE locks)
- Full building coverage can be enabled with V6 panels every 3-5 floors
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended^{*1}



* Reference ENGAGE Gateway data sheet for additional details.

1. Range varies based on conditions.
2. 10 NDE/LE locks per Engage Gateway varies based on range.

Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE/LE locks with Gateway via IP
Features	
Maximum number of locks supported by controller	N/A
Maximum number of locks supported via network access	100
Maximum number of gateways per controller/Host	N/A
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Lock
Remote linking capability via Host	Yes
Update frequency	Real time
Schedules	No
Holiday	No
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button - LE only	Yes
Deadbolt - LE only	Yes
Lock functions	
Classroom/storeroom	Yes
Privacy - LE only	Yes
Office - LE only	Yes
Apartment - LE only	Yes
Licensing	
Please contact Kastle to determine licensing requirements	

Please contact Kastle for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

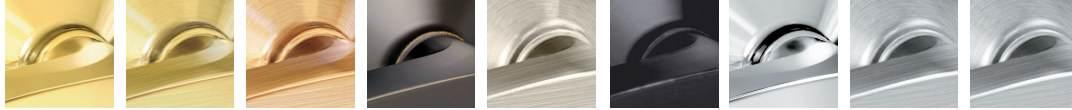
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011136, Rev. 12/17
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal

Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.



TimeClock Plus™
a better sense of time...



Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enable maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability
- Employee self-service kiosk functions
- Real-time communications

TimeClock Plus

Developed by Data Management Inc., TimeClock Plus is available as a Windows or Web application suite and records employee hours for payroll while providing real time labor reporting functions to more than 50,000 clients across the nation. As a recipient of numerous awards that include Deloitte Technology Fast 500 and Texas Small Business of the Year, TimeClock Plus has become a trusted provider with an A+ rating from the Better Business Bureau. With almost 20 years of experience in interfacing biometric technology with business critical processes, TimeClock Plus is recognized by the industry as an innovated leader in time and attendance. For more information go to www.timeclockplus.com or call 800-749-8463.

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Software specifications

Inputs and outputs:	<ul style="list-style-type: none">USB printer output
Special features:	<ul style="list-style-type: none">Software as a Service (SaaS) solution
Credential inputs:	<ul style="list-style-type: none">PIN - ID (digit length)Barcode card readerProximityHID®Indala®
Supervisor capabilities:	<ul style="list-style-type: none">Enroll employee hand template
Employee capabilities:	<ul style="list-style-type: none">Department/job transferReview last punchReview schedulesReview accrual balancesReview hoursRequest time off (vacation, sick)Trigger relay (digital output)Tip entryLunch punch lockout (minimum break length)Employee messages

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009354, Rev. 05/14
www.allegion.com/us

VA and military hospital cross-corridor doors

Government solutions

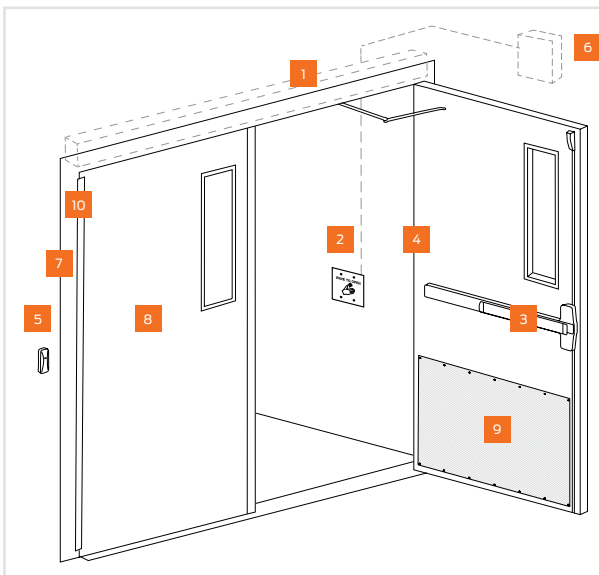


Cross-corridor openings can be found in many areas of a hospital. These doors are subject to the most use and, consequently, abuse than almost any other openings in the medical facility.

The most important goal of these openings is to control the spread of smoke or fire in the event of an emergency. Cross-corridor doors are also a physical barrier between one area of the facility and another that can be locked down in an emergency. Yet with the constant activity in the hospital, these doors must also stand up against damage caused by the many types of equipment used by staff. Balancing safety and durability is important.

VA and military hospital cross-corridor door operational requirements:

- Doors are usually unlocked
- There should be free access and egress at all times



Standard features

Building and safety codes may vary, but most hospital cross-corridor doors include these standard features:

- | | |
|---------------------------------|---------------------------------|
| 1 LCN automatic opener | 7 Steelcraft hollow metal frame |
| 2 LCN touchless actuator | 8 Steelcraft door INPACT door |
| 3 Von Duprin exit device | 9 Ives kick plate |
| 4 Von Duprin INPACT exit device | 10 Ives continuous hinge |
| 5 Schlage reader | |
| 6 Schlage power supply | |

Note: Please refer to Allegion's BAA catalog for a full selection of BAA compliant hardware options.

Innovative solutions for hospital cross-corridor doors

A safe and secure cross-corridor opening includes these innovative healthcare solutions designed by Allegion.

Von Duprin® INPACT® exit device

- Unique recessed exit device with sloped end caps prevents carts, clothing or equipment from catching on the device while passing through the opening
- Wide, low-profile push pad allows easy operation, and can be pushed with a hip or elbow if needed
- High durability with a much longer shelf life for high-usage doors abused by traffic flow and equipment

Steelcraft® GrainTech™ doors

- Tough, long-lasting steel doors are specially designed to accommodate the recessed INPACT exit device
- Doors are available with full range of positive pressure fire ratings from 20 minutes to 3 hours
- Deeply embossed panel creates the appearance of real wood doors

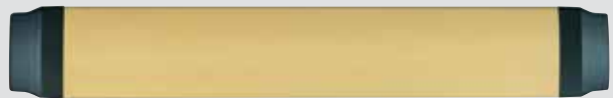
Allegion also recommends the use of accessories that enhance cross-corridor door operation.

- Open magnets allow cross-corridor doors to remain open, but also release doors automatically in the event of an emergency
- Antimicrobial finishes prevent the growth of bacteria

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Von Duprin® INPACT® exit device



GSA Contract Holder

Start
with
Allegion

Call **855-614-5874**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions

Visit **us.allegion.com/industries/government**

- Access information on our comprehensive BAA Compliant Product Guide for selecting American-made products
- Find LEED certified, ADA and FIPS 201 compliant solutions and services
- Access Cooperative Purchasing 'where to buy' information



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009138, Rev. 03/14
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and Doors.Net



Overview

Schlage® NDE or LE locks with ENGAGE™ technology seamlessly integrate with Keri Doors.Net to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

Keri Systems is one of North America's largest independent access control and integrated security system manufacturers. Their Doors.Net Software and TCP/IP-based NXT Hardware solution provides sophisticated access control and video integration with all of the features required to manage a few doors or hundreds of doors, in a modern IT-friendly architecture and user-friendly interface.

System Capabilities Summary

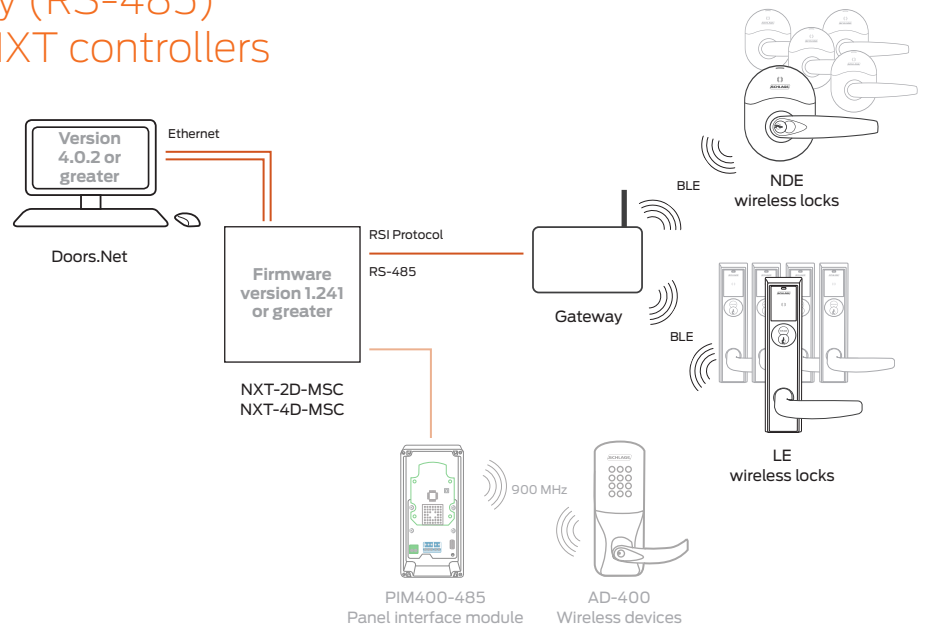
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis for NDE and mortise chassis for LE
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with Keri Doors.Net and NXT controllers

- Each GWE can support up to 10 NDE or LE wireless locks total
- The NXT-2D-MSD can support up to 20 NDE or LE combined across 2 GWE (1 per bus) or up to 32 AD400 across 2 PIM400-485 (1 per bus)
- The NXT-4D-MSD can support up to 40 NDE or LE combined across 4 GWE (1 per bus) or up to 64 AD400 across 4 PIM400-485 (1 per bus)
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common NXT controller on a separate port. See Keri Systems AD Series solution sheet for additional details.



Note:

Please refer to NDE or LE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Keri Systems: 800.260.5265 or www.kerisys.com

System capabilities:

	NDE/LE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	20 NDE for NXT-2D and 40 for NXT-4D
Maximum number of locks supported via network access	N/A
Maximum number of gateways per controller/Host	2 - NXT-2D; 4 - NXT-4D
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	Yes
Update frequency	N/A
Schedules	N/A
Holiday	N/A
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	Yes
Lock functions	
Classroom/storeroom	Yes
Office	Yes LEMB only
Privacy	Yes LEMB or LEMD only
Apartment	Yes LEMB or LEMD only
Licensing	
Please contact Keri Systems to determine licensing requirements	

Please contact Keri Systems for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

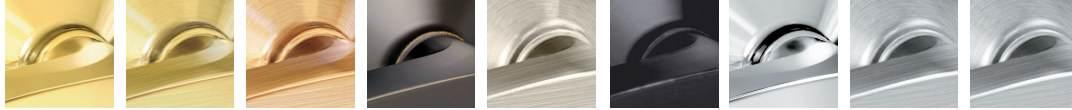
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, aptiQ and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011554, Rev. 12/17
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and System Galaxy Software



Overview

Schlage® NDE and LE locks with ENGAGE™ technology seamlessly integrate with System Galaxy Software to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

System Galaxy is a complete, enterprise-class access control and security management solution that offers unsurpassed ability to satisfy the requirements of any credential management, access control or security situation. With a user interface that's easy to operate and system features that deploy in any combination, Galaxy easily fits any customer.

System Galaxy Software also supports AD Series locks allowing you to combine both lock platforms into a single solution.

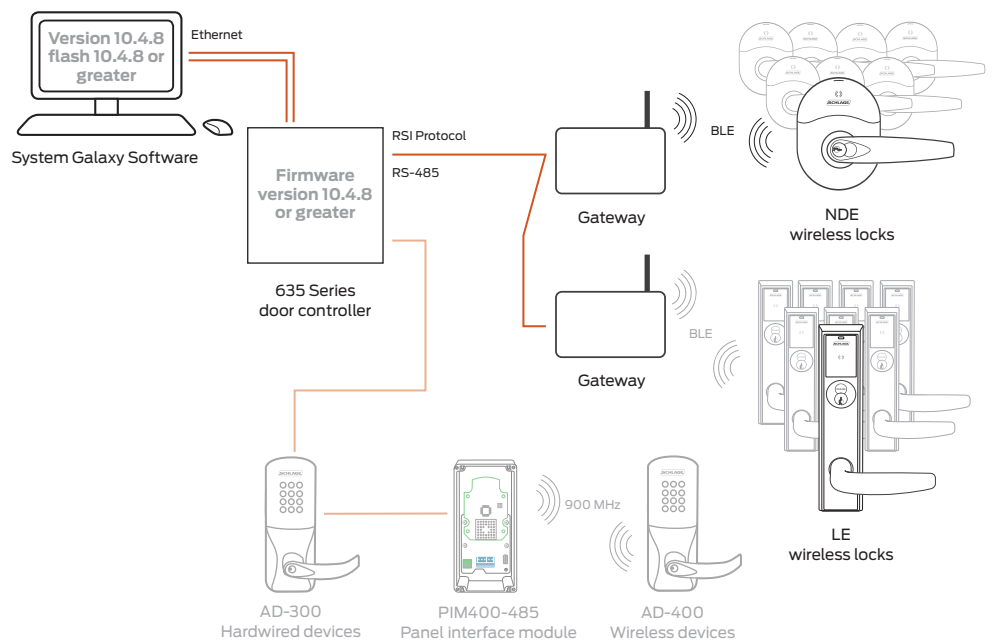
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with System Galaxy Software and 635 Series door controller

- 635 supports a maximum of 11 DSI boards with 2 ports each and a maximum of 64 devices, depending on Galaxy enclosure selected
- Each DSI channel (2 total/per board) will support up to 16 gateways and or PIM400-485 or AD-300 daisy chained and up to 16 AD or NDE/LE locks per channel
- Each gateway can support up to 10 NDE/LE locks and each PIM400-485 can support up to 16 AD-400 locks
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Galaxy AD Series solution sheet for additional details.

Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE/LE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	64
Maximum number of locks supported via network access	N/A
Maximum number of gateways per controller/Host	64
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	No
Update frequency	N/A
Schedules	N/A
Holiday	N/A
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button - LE only	Yes
Deadbolt position - LE only	No
Lock functions	
Classroom/storeroom	Yes
Privacy	Yes
Office	Yes
Apartment	No
Licensing	
Please contact Galaxy to determine licensing requirements	

Please contact Galaxy for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

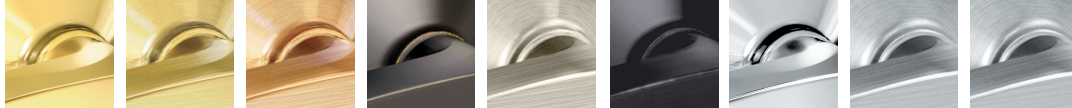
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR) 06/Rhodes (RHO) 07/Athens (ATH)

17/Sparta (SPA) M81/Boardwalk (BRK)* M52/Broadway (BRW)*

(AT)* (LON)* (ME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

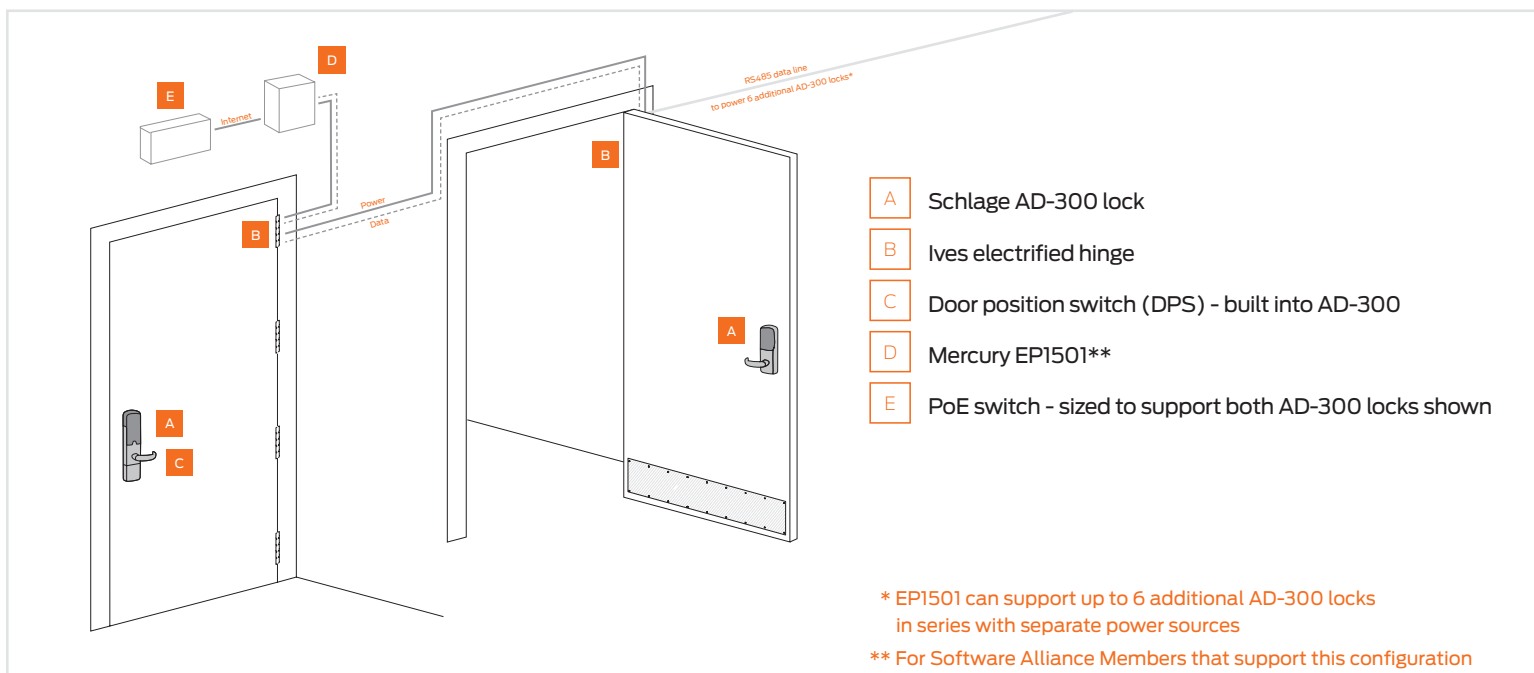
KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011291, Rev. 12/17
www.allegion.com/us



Allegion's Schlage® PoE Solution supports up to 8 AD-300 locks, and powers up to 2 AD-300 locks utilizing Mercury EP1501.



About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.



Integrated security solution

with AD-400 wireless devices and TotalCard Solution



Overview

Schlage AD Series locks seamlessly integrate with TotalCard™ to provide a cost effective and scalable access control solution to meet your security needs.

TotalCard is a cloud-hosted or customer-hosted campus card system that allows colleges and universities to monitor and control transactions, activities, and privileges. Institutions large and small trust TotalCard to do things like make debit purchases, automate time cards, gain admission to events, use facilities like laundry and vending and gain access to specific doors or buildings.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

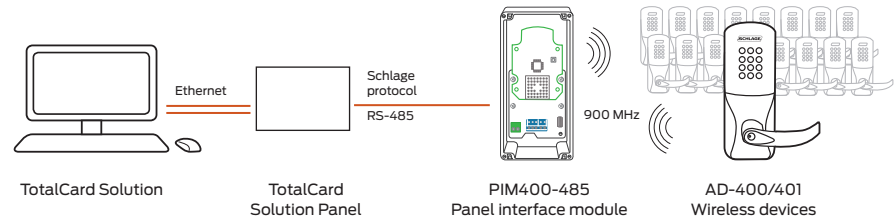
The AD Series is available in wireless configurations to suit the specific requirements of each campus. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails and centralized lockdown. The TotalCard system, in conjunction with AD Series wireless locks and devices, eliminates the need to run wire to each opening, helping you to reduce costs and extend the reach of your access control system.

System Capabilities Summary

- AD-400 Wireless
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400/401 via RS-485

- TotalCard Solution supports up to 256 AD-400 devices per solution panel and an unlimited number of solution panels.
- Each PIM400-485 supports up to 16 AD-400 devices
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



Note:

Please refer to AD-400, AD-401, and PIM400-485, data sheets for complete AD Series specifications.

System capabilities:

AD-400 PIM400-485

Features

Maximum number of readers supported by controller/PIM	256
Maximum number of readers per PIM400	16
Maximum number of PIM400s per RS-485 port	Up to 16
Access control decision made by host or by lock database	Host
Remote Linking capability via Host	Yes

Readers - see supported card formats below

Keypad only	Yes
Magnetic stripe card	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes
PIV & PIV-I card compatible ¹	Yes
Card + PIN	Yes

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	Yes
Request to enter	No
Low battery status	Yes
Communication status: RF/RS-485	Yes /Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²
Deadbolt position	No
Interior push button	No

Lock functions

Classroom/storeroom	Yes
---------------------	-----

Licensing

Please contact TotalCard to determine licensing requirements.

Please contact TotalCard for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 FIPS-201-1 compliant option available requires FMK reader. The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact TotalCard to confirm they are able to support your FIPS 201-1 credential format.

2 For greater than 1 device will be <20 sec.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

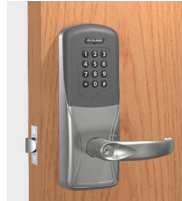
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



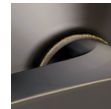
605
Bright brass



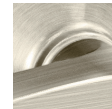
606
Satin brass



612
Satin bronze



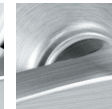
643e
Aged bronze



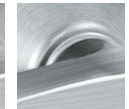
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
010761, Rev. 09/17
www.allegion.com/us

For additional information contact TotalCard Solution: 601.499.2131 or www.totalcard.net

COMING SOON

All features and capabilities subject to change

SCHLAGE

Integrated security solution

with AD-400 wireless devices and Mavin Security Management Platform

 **MAVIN**



Overview

Schlage AD Series locks seamlessly integrate to provide a cost effective and scalable access control solution to meet your security needs.

Mavin's Security Management Platform is built on cutting-edge software and hardware technology, leveraging the expertise and intelligence of the industry's best manufacturers, system integrators and end users. Mavin seamlessly integrates modules for access control, people and credential management, alarm monitoring, action and event scheduling, front desk identity verification, and real-time device status monitoring. Mavin's cognitive, open architecture design allows for third-party integrations and plug-ins to digital video, intrusion and fire systems. With Mavin, you can start at any system size and scale to fit as your facility and security needs grow—all while maintaining the same simple user interface and sophisticated back-end architecture that deliver an easy-to-use system with robust functionality.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

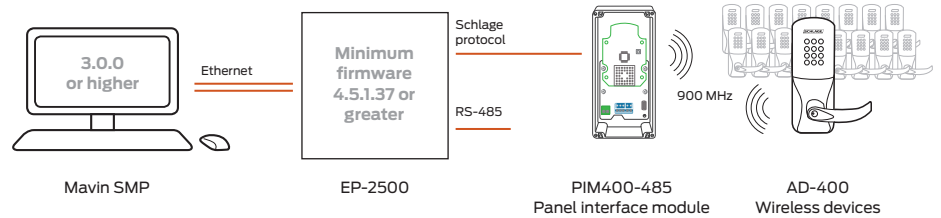
The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

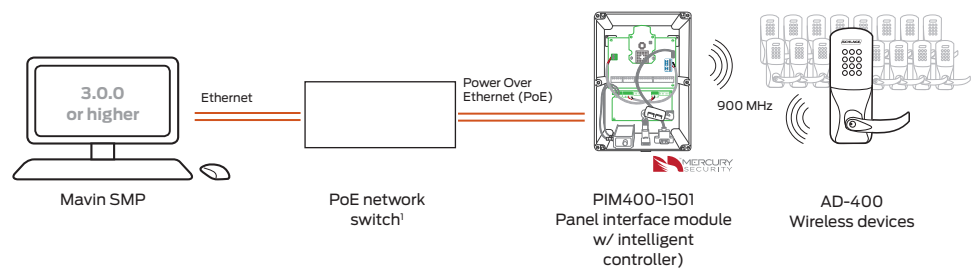
AD-400 via RS-485 with SMP and EP-2500

- EP-2500 supports up to 64 AD locks total
- EP-2500 supports a maximum of 4 PIM400-485 per RS-485 port. There are 2 ports on each EP-2500 supporting up to 8 PIM400-485 total.
- Wireless range up to 200' in building construction, up to 1000' line of sight



AD-400 via PIM400-1501 with SMP

- PIM400-1501 supports up to 16 AD-400s
 - Wireless range up to 200' in building construction, up to 1000' line of sight
- 1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



Note:

Please refer to AD-400, PIM400-485, PIM400-TD2, PIM400-1501, WPR400, WRI400 data sheets for complete AD Series Specifications

For additional information contact Mavin: 1.866.680.8346

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-1501
Features		
Maximum number of readers supported by controller/PIM	64	16
Maximum number of readers per PIM400	16	16
Maximum number of PIM400s per RS-485 port	Up to 8	N/A
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	No
Readers - see supported card formats below		
Keypad only	Yes (up to 10 digits)	Yes (up to 10 digits)
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible	No	No
Card + PIN	Yes (up to 10 digits)	Yes (up to 10 digits)
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	No	No
Low battery status	No	No
Communication status: RF/RS-485	Yes/Yes	Yes/Yes
Remote lockdown/unlock	Yes (per heartbeat) ¹	Yes (per heartbeat)
Deadbolt position	No	No
Interior push button	No	No
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing		
Please contact Mavin to determine licensing requirements.		

Please contact Mavin for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ Heartbeat is 10 minutes default

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

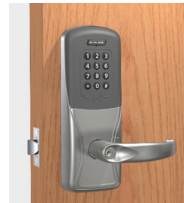
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD--300/400-MS)



Cylindrical Lock (AD--300/400-CY)



Exit Device Trim (AD--300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



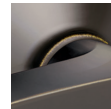
605
Bright brass



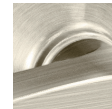
606
Satin brass



612
Satin bronze



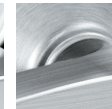
643e
Aged bronze



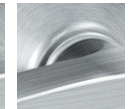
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009824, Rev. 09/17
www.allegion.com/us

For additional information contact Mavin: 1.866.680.8346



Integrated security solution

with AD-400/401 wireless and AD-300/301 hardwired locks and WinDSX

DSX Access Systems, Inc.



Overview

The AD Series electronic locking platform is designed to be open and flexible. With its open architecture, the AD Series can be seamlessly integrated into any WinDSX or WinDSX SQL access control system with the use of DSX-L85 Integrated Lockset Management Software.

Schlage AD Series electronic locks combine all of the components typically found around the door; such as the reader, door position switch and the request-to-exit switch into one device; which simplifies installation and saves money.

Schlage AD Series electronic locks are available in hardwired and wireless configurations. For new construction, the AD-300 hardwired locks provide all of the benefits of a traditional access control solution. For existing facilities, the AD-400 wireless locks provide real time access control without having to run wires direct to each opening. Both AD Series Locksets work seamlessly with WinDSX and traditional door controllers and readers.

The AD Series can be customized with seven (7) different credential reader options including keypad, magnetic stripe, and multi-technology which reads both 125 kHz proximity and 13.56 MHz smart cards. All card readers are available with keypad for multi-factor authentication supporting up to 7 digit PINs. Designed to be modular, readers can easily be upgraded in the future to meet your changing credential needs.

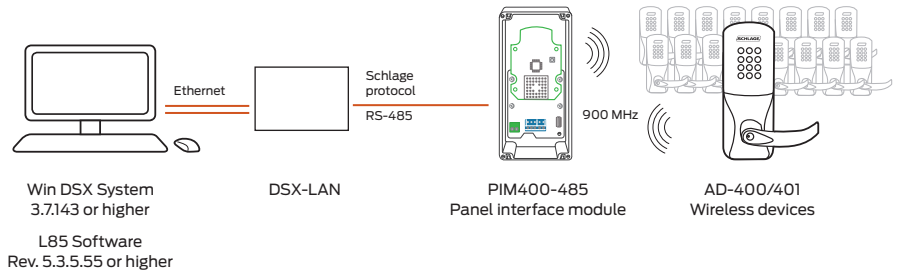
AD-301 and AD-401 FIPS 201-1 Compliant solutions available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS Compliant solutions by replacing existing reader with new FMK reader. Please contact DSX to confirm they will be able to support your FIPS 201 credential format.

System Capabilities Summary

- System capabilities
 - 1 L85 deployment per location, 32,000 locations
 - Up to 126 locksets per L85 deployment
 - Up to 32 AD-400 / 10 AD-300 locking devices per communication line.
 - Broad RSI Protocol feature set. Unlimited client workstations.
 - No mandatory software maintenance package required
 - DSX supports Curfew function
- AD-400 wireless applications:
 - Communicates to the PIM400-485; each PIM400-485 supports up to 16 locksets
 - 900 MHz communication between AD-400 and PIM400 for secure, AES-128 bit encrypted transmission
 - Patent-pending wireless lockdown feature (10 seconds or less) preserves up to 2 year battery life
- AD-300 hardwired applications:
 - Communicates to L85 software via RS-485/ TCP/IP
- Additional details on readers supported and chassis types available on page 3 and 4
- AD Series wireless accessories available for remote, gate, elevator, and portable (mustering) applications.
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- AD Series meets ANSI/BHMA A156.25, ANSI/BHMA Grade 1 requirements and is UL 294 Listed

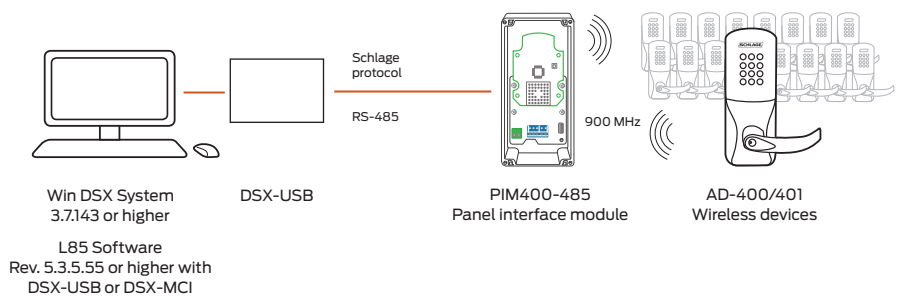
AD-400/401 via RS-485 with L85 software and a DSX-LAN

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 2 PIM400-485s per DSX-LAN
- Up to 16 AD-400/401 devices per PIM400-485
- Up to 32 AD-400/401s in total
- No mandatory software maintenance package required
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



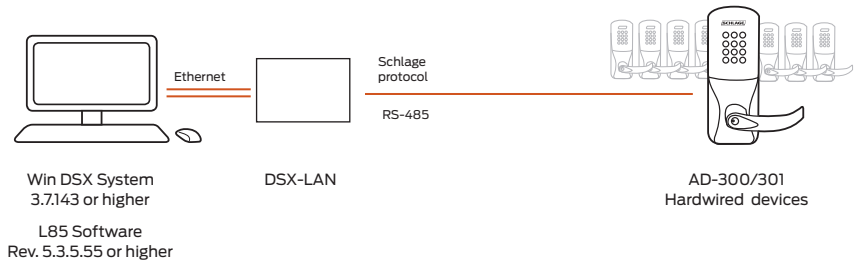
AD-400/401 via RS-485 with L85 software and a DSX-USB or DSX-MCI

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 2 PIM400-485s per DSX-USB/MCI
- Up to 16 AD-400/401 devices per PIM400-485
- Up to 32 AD-400/401s in total
- No mandatory software maintenance package required
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



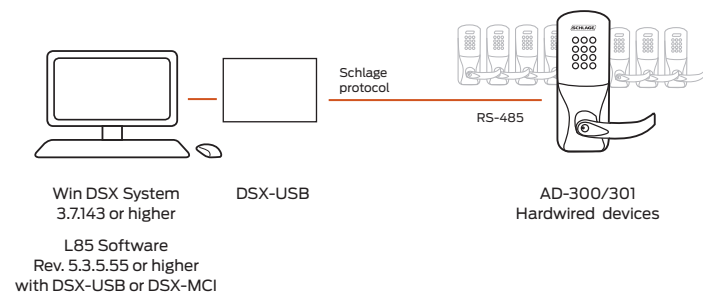
AD-300/301 via RS-485 with L85 software and a DSX-LAN

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 10 AD-300/301s per DSX-LAN
- No mandatory software maintenance package required



AD-300/301 via RS-485 with L85 software and a DSX-USB or DSX-MCI

- Up to 126 devices per L85 deployment. Larger Systems require multiple deployments.
- Up to 10 AD-300/301s per DSX-USB/MCI
- No mandatory software maintenance package required



Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-485, and PIM400-TD2 data sheets for complete AD Series specifications.

Consult DSX for specific PC or server requirements to manage multiple DSX-LAN/USB/MCI devices.

While not specifically shown, AD-300/301 and AD-400/401 can be used on the same port, daisy chained. For Wiegand solutions, please contact DSX.

System capabilities:

	AD-400/401 PIM400-485	AD-300/301 Direct RS-485
Features		
Maximum number of readers supported by DSX-LAN, DSX-USB/MCI Comm. Interface	32	10
Maximum number of readers per PIM400	Up to 16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 2	Up to 10
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	Yes	N/A
Readers - see supported card formats below		
Keypad only	Yes (up to 7 digits or up to 5 digits for card or PIN)	Yes (up to 7 digits or up to 5 digits for card or PIN)
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes
Card + PIN	Yes (up to 7 digits)	Yes (up to 7 digits)
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	Yes	Yes
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes / Yes	NA/Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
Lock functions³		
Classroom/storeroom	Yes	Yes
Office	Yes	Yes
Privacy	Yes	Yes
Apartment	Yes	Yes
Licensing	Please contact DSX to determine licensing requirements.	

Please contact DSX Access Systems Inc. for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS 201 compliant option available: The AD Series can be used in applications which require approval by the US Federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 or AD-301 data sheet for complete details. Contact DSX to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec.

³ DSX also supports Curfew Function. Consult DSX for details.

Consult DSX for specific PC or server requirements to manage multiple DSX-LAN/USB/MCI devices

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

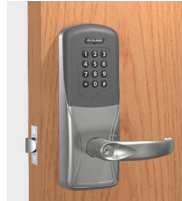
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



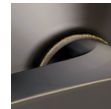
605
Bright brass



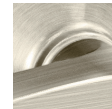
606
Satin brass



612
Satin bronze



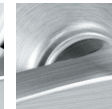
643e
Aged bronze



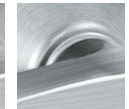
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005137, Rev. 09/17
www.allegion.com/us



Stairwell doors

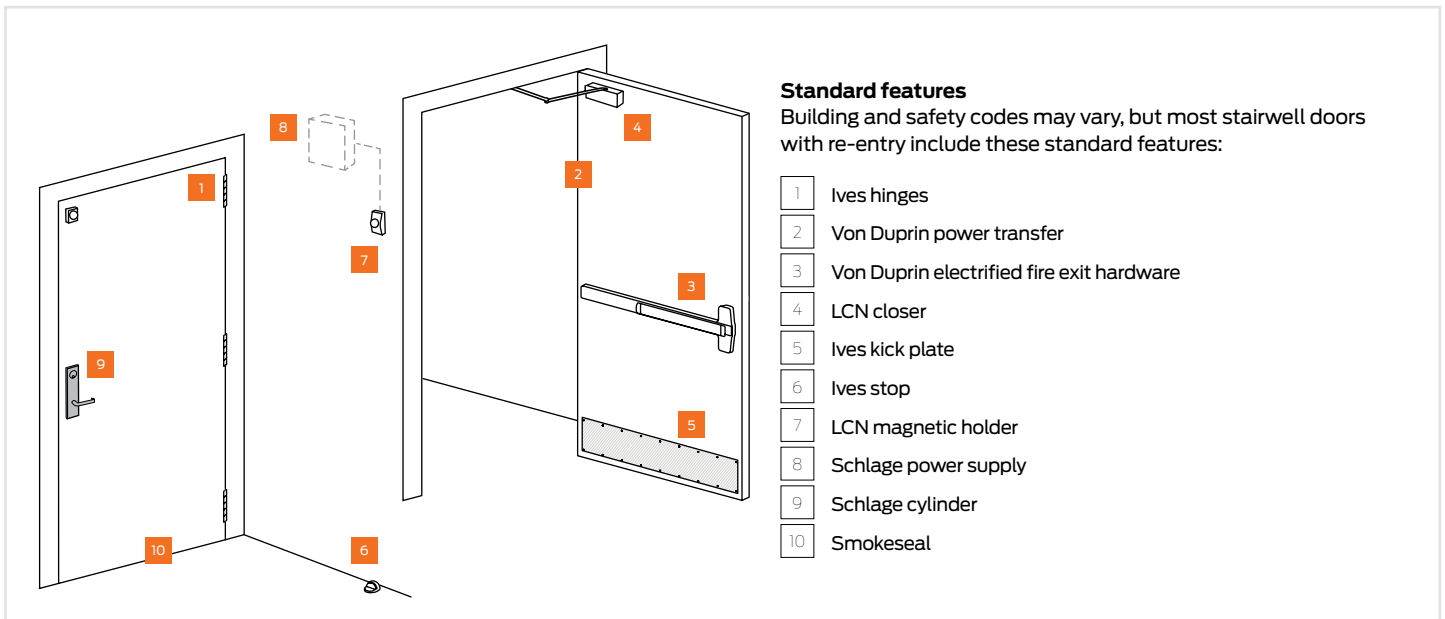
Commercial real estate solutions

Stairwell doors with re-entry are a critical point for reliable, effective access control by authorized personnel.

These doors must remain closed for fire safety compliance and the locks must release with the fire alarm for quick and easy exiting.

Stairwell door operational requirements:

- Doors are usually unlocked during the day
- There should be free egress at all times
- Access authorized by valid credential or keypad after hours



Innovative solutions for stairwell doors

The security of a stairwell, especially in a building with multiple tenants, is a critical component of a comprehensive approach to safety and security in commercial buildings.

Steelcraft® fire-rated doors and frames

- Seamless integration with a variety of Schlage®, LCN® and Von Duprin® door hardware.
- Certified to meet 20-minute to 3-hour fire code ratings.

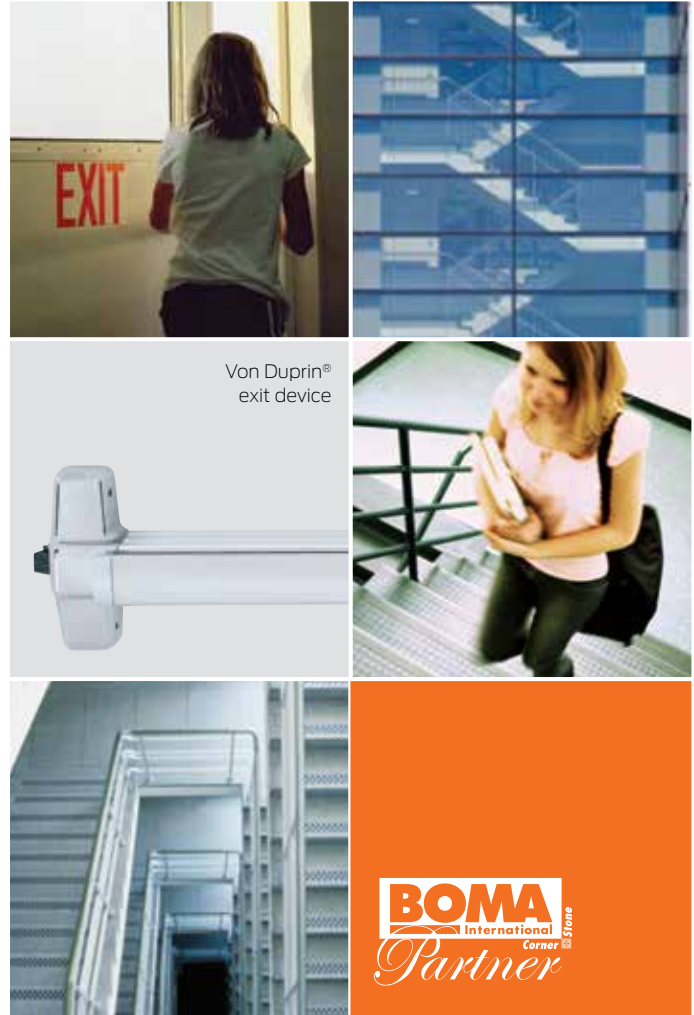
Von Duprin exit devices

- Von Duprin exit devices have set the standard for fire and life safety in public buildings for more than 100 years.
- 98/99 Series panic exit devices enhance security and life safety by allowing a door to be locked during specified hours, while enabling fast egress at all times.

Allegion understands that the updated codes for stairwell re-entry in commercial buildings can be confusing. Here are some important changes that you should know about these codes:

- Stairwell re-entry refers to the code requirements allowing an occupant to leave a stairwell during a fire emergency and find another exit.
- Some fire codes prohibit mechanical locks on the stair side of doors regardless of the number of floors being served. It is important to determine which code has been adopted where a building is located so the correct solutions can be used.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Visit www.allegion.com/us/industries/commercial

- Access information for BOMA 360 tools and resources
- Find information about our products and services
- Review case studies and articles about physical security solutions in commercial environments



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.



VANDERBILT

Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Security Management System (SMS)



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with the Vanderbilt Security Management System (SMS) to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

SMS delivers a fully integrated access control solution including alarm monitoring, photo ID badging and video surveillance. It's perfect for large, multi-site or global organizations and provides you with an unparalleled level of flexibility by supporting an unlimited number of users, readers, credentials and other devices. We make it affordable by including multiple modules such as badging, visitor management and reporting in a single software package. Further accelerate your ROI by combining SMS with Schlage's AD Series electronic locks in addition to the NDE lock.

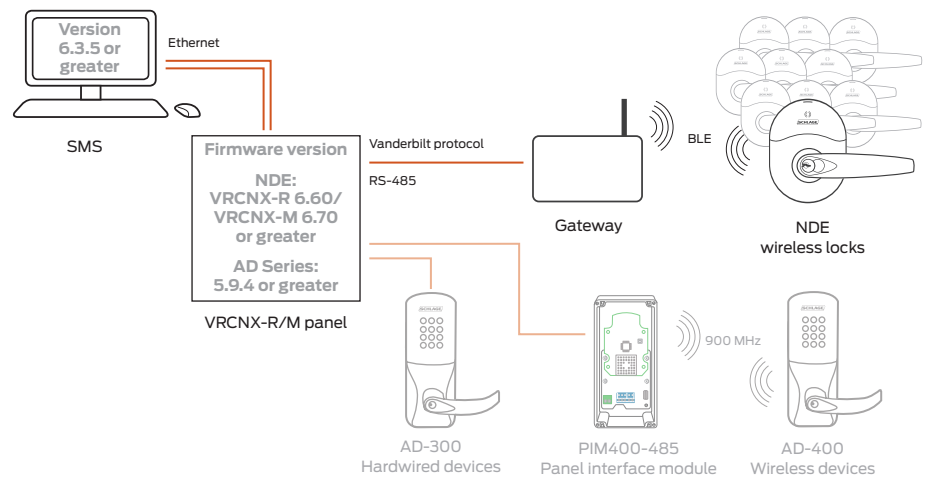
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with SMS and VRCNX-R/M panels

- VRCNX-R/M panel supports up to 16 NDE locks total
- VRCNX-R/M panel supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each VRCNX-R/M panels
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Vanderbilt Industries: info@vanderbiltindustries.com or 855.316.3900

System capabilities:

NDE locks via Gateway (RS-485)

Features

Maximum number of locks supported by controller	16
Maximum number of locks supported via network access	N/A
Maximum number of gateways per controller/Host	16 or 8 per RS-485 port
Maximum number of NDE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	Yes (using Vanderbilt Discovery Tool)

Credentials

Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV & PIV-I card compatible	No

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	N/A

Lock functions

Classroom/storeroom	Yes
---------------------	-----

Licensing

Please contact Vanderbilt to determine licensing requirements

Please contact Vanderbilt for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

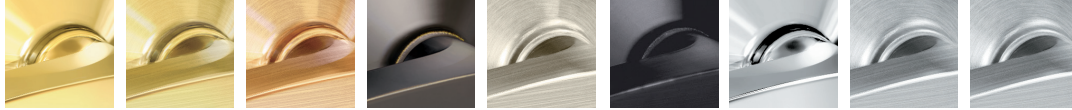
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011281, Rev. 12/17
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and Keep by Feenics™

Feenics



Overview

The Schlage NDE or LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

Schlage NDE/LE locks with ENGAGE technology seamlessly integrate with Keep by Feenics to provide a cost effective and scalable access control solution to meet your security needs. This integration allows customers to leverage both the security and convenience of the Schlage wireless locks while harnessing the power of an open, cloud based security platform. Keep by Feenics is a true cloud based access control and ID management platform based on industry standard hardware. Keep by Feenics is the only product to offer customers a choice of a hosted in Amazon Web Services (AWS) or traditional on premise (private cloud) deployment methodologies.

Keep by Feenics also supports AD Series locks allowing you to combine both lock platforms into a single solution.

System Capabilities Summary

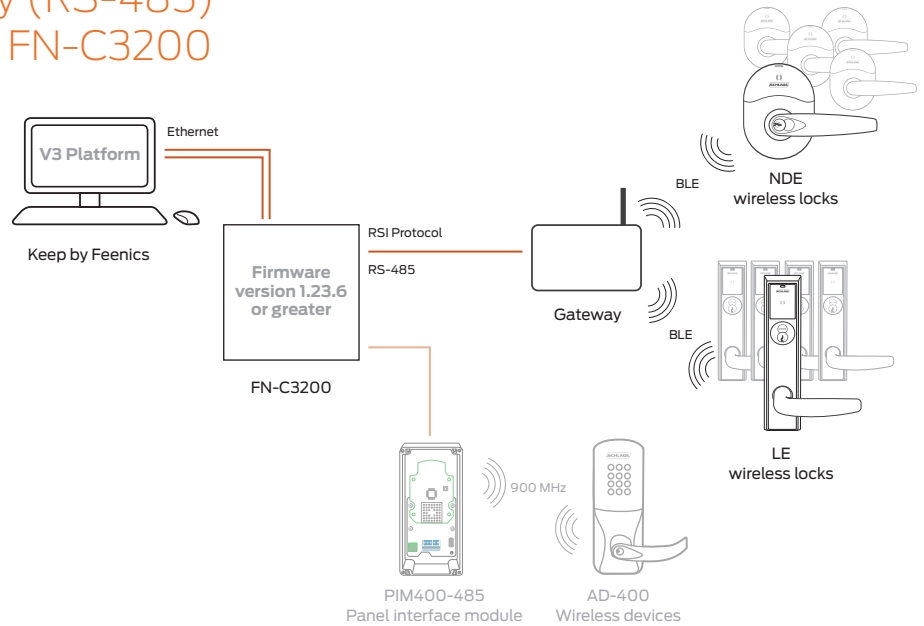
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with Keep by Feenics and FN-C3200

- FN-C3200 supports up to 64 NDE or LE or AD-400 locks total
- FN-C3200 supports a maximum of 8 gateways or PIM400-485 per RS-485 port
- There are 2 ports on each FN-C3200
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

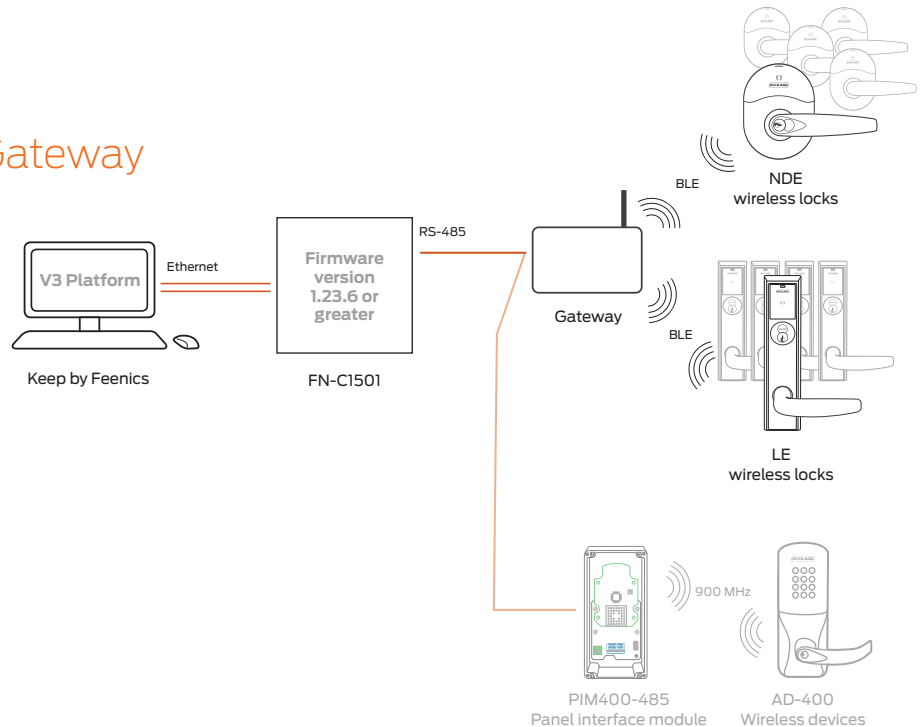
NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Feenics AD Series solution sheet for additional details.



NDE/LE locks via C1501/Gateway

- FN-C1501 supports up to 16 NDE/LE and or AD-400 locks combined
- The FN-C1501 supports a maximum of 8 gateways or PIM400-485

NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Feenics AD Series solution sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact 1-855-333-6427 or Feenics.com

System capabilities:

	NDE/LE locks via Gateway (RS-485 via C3200)	NDE/LE locks via C1501/Gateway
Features		
Maximum number of locks supported by controller	64	16
Maximum number of locks supported via network access	N/A	N/A
Maximum number of gateways per controller/Host	16	8
Maximum number of NDE/LE locks per gateway	10	10
Access control decision made by Host software or by lock database	Mercury controller	Mercury controller
Remote linking capability via Host	Both	Both
Update frequency	N/A	N/A
Schedules	Yes	Yes
Holiday	Yes	Yes
Credentials		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	N/A	N/A
Request to enter	N/A	N/A
Low battery status	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)
Interior push button - LE only	Yes	Yes
Mortise Deadbolt - LE only	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Office - LE only	Yes	Yes
Privacy - LE only	Yes	Yes
Apartment - LE only	Yes	Yes
Licensing		
Please contact Feenics to determine licensing requirements		

Please contact Feenics for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

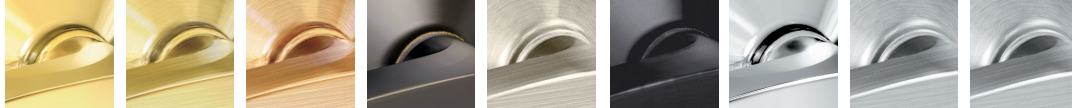
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011284, Rev. 12/17
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal

INFOTRONICS®
Employee Attendance Systems



Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.

Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enables maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability

InfoTronics, Inc.

InfoTronics, Inc. offers the popular Schlage HandPunch GT-400 Biometric Time & Attendance Terminal and adds unique communications capabilities and additional features. InfoTronics clocks are Internet-ready, allowing employee work times and transactions to be recorded and shared easily with Attendance Enterprise. These HTTP-enabled time clocks communicate directly over the Internet with our hosted time and attendance service. They do not require any software installation at your site. These truly plug-and-play time clocks are:

- Quick to install.
- Easy to use, manage, and maintain.
- Reliable for collecting information.

Features and/or clock colors are subject to change without notice.

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. InfoTronics and Attendance Enterprise are registered trademarks of InfoTronics, Inc. All other trademarks are the property of their respective owners.

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Software specifications

Special features:	<ul style="list-style-type: none">▪ Software as a Service (SaaS) solution▪ Centralized database▪ Hand template management▪ Debug logging▪ Double-punch restriction▪ Automated data synchronization▪ Data encryption▪ Bell scheduling▪ Security access▪ Auxiliary prompt initiation rules▪ Special enrollment▪ Individual employee threshold▪ Template averaging▪ Configurable audio response▪ Capacity: 1000 employees, 5000 transactions, and 3000 schedules
Credential inputs:	<ul style="list-style-type: none">▪ PIN - ID (digit length)▪ Barcode card reader (code 3 of 9, 2 of 7)
Supervisor capabilities:	<ul style="list-style-type: none">▪ Add punch for specific employee▪ Add schedule for specific employee▪ Credit hours for specific employee▪ Credit dollars for specific employee▪ Lift restriction for specific employee▪ Global time restriction for employees▪ Display employee names, badge numbers, and the date and time of each employee's last punch (sorted by employee last name)▪ Display employees who are punched in with their names, badge numbers, and the date and time of each employee's last punch
Employee capabilities:	<ul style="list-style-type: none">▪ Complex data collection (time of day, hours, dollars, workgroup, date, selection list defined at configuration)▪ Callback punch▪ Workgroup transfer▪ Employee review (last punch, schedules, benefit balances, pay designation summaries)▪ Request time off (vacation, sick)▪ Trigger relay▪ Tip entry

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009353, Rev. 09/14
www.allegion.com/us



Integrated security solution

with CO-250, AD-250 in Vanderbilt SMS Select

VANDERBILT



Overview

SMS Select software is ideal for campus environments that are seeking added security, convenience and efficiency. At a fraction of the cost of a networked solution, SMS Select delivers integrated access control, digital video and allows you to design and create badges. Future migration to SMS Premier or Enterprise level software is available if your needs change.

SMS Select supports AD Series and CO Series standalone locks. The AD-250 and CO-250 are a cost effective solution for large campuses. Schlage electronic locks allow you to have better control of your key system and minimize costs associated with re-keying. User rights for the AD-250 and CO-250 are encoded on the magnetic stripe credential. This allows you to easily add users without touring the locks.

The innovative integrated design of the AD Series and CO Series saves you time and money on installation. It combines components typically found around the door, such as the credential reader, request-to-exit switch and door position switch. Therefore there are no wires to run and labor is greatly reduced. An easy-to-use handheld device transfers information from the system to the lock. The handheld device can also be used to retrieve audits from devices.

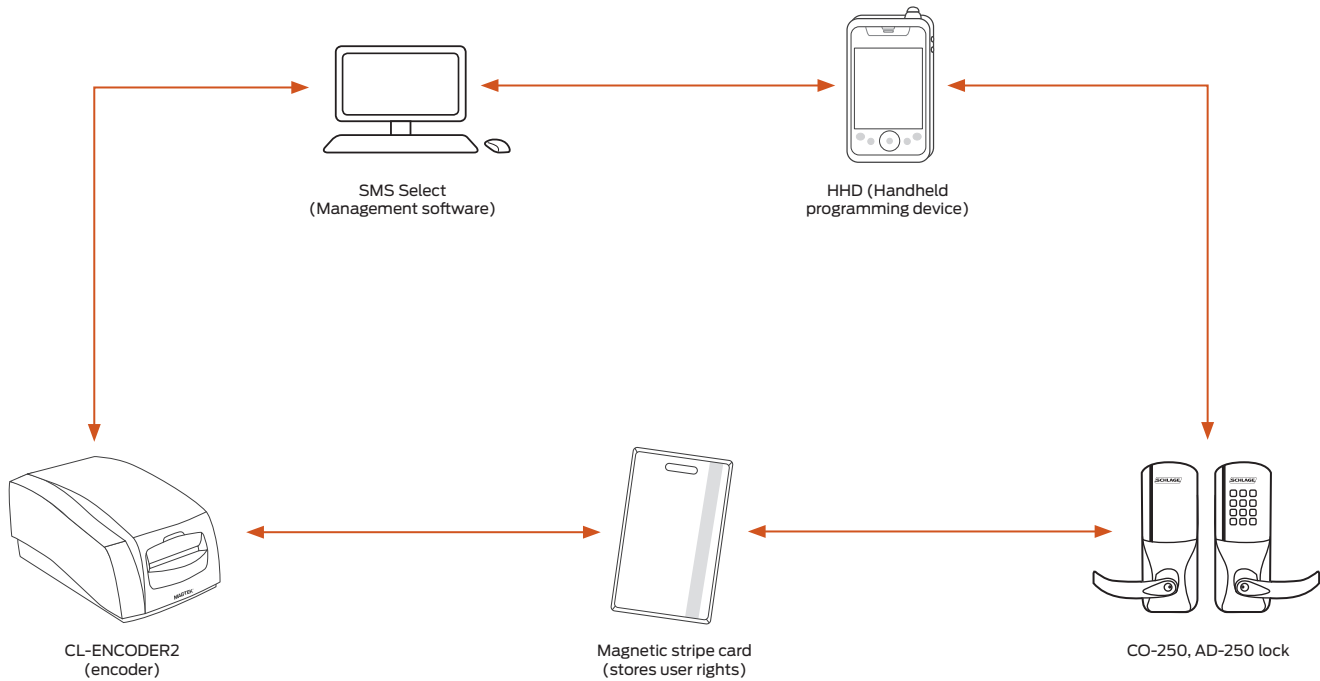
Need help deciding between the AD Series and CO Series? The AD Series is the ideal solution if you want flexibility. The modular design of the AD Series allows you to upgrade from standalone to networked if your needs change in the future. The AD Series also allows you to upgrade credential readers. The CO Series is preferable if you do not expect your needs to change. CO Series options are factory orderable rather than upgradable like the AD Series.

System Capabilities Summary

- SMS Select
 - Supports an unlimited number of users
 - Supports up to 4000 audits with the CO-250 or 10,000 audits with the AD-250
 - Supports up to 16 times zones and up to 32 holidays
 - Set up to 8 auto unlock schedules per system (up to 8 per lock)
- AD-250
 - Upgradable credential and communication modules
 - Available with choice of magnetic stripe or magnetic stripe plus keypad readers
 - Classroom/Storeroom, Office, Apartment and Privacy functions
 - UL 294 listed, ANSI/BHMA A156.25 and ANSI/BHMA Grade 1 certified
- CO-250
 - Available with choice of magnetic stripe or magnetic stripe plus keypad readers
 - Classroom/Storeroom, Office and Privacy functions
 - UL 294 listed, ANSI/BHMA A156.25 and ANSI/BHMA Grade 1 certified

System diagram

Computer programmable user rights
on the magnetic stripe credential
CO-250 / AD-250



Benefits

- Cost-effective, simple means of controlling access within your facility.
- Online solutions available if your needs should change.
- New users or access points can be entered into the system in seconds.
- Comprehensive reporting on audit trails retrieved, access attempts, etc.

Complete Your System

- The Schlage Utility Software (SUS) on the Handheld Programming Device (HHD) provides an easy way to retrieve audits and transfer information between your access control software and electronic locks.
- The combo proximity keyfobs with iButton® option is available which allows you to manage proximity and iButton® technologies in the same facility.
- Schlage offers many contactless, keypad and magnetic stripe readers that are compatible with the CT5000.
- We offer a complete portfolio of credentials including smart, proximity and magnetic stripe. Multi-technology credentials are also available.



NOTE: Complete specifications are detailed on individual data sheets which can be found on in the Electronic Access Control Catalog available on <http://epub.allegion.com/eac>.

System capabilities:

	Integrated standalone electronic locks	
	CO-250	AD-250
System capacity		
Number of doors	Unlimited	Unlimited
Number of users/audits	4,000	10,000
Holidays	32	32
1st person in	Yes	Yes
Time zones	16	16
Readers		
Magnetic stripe card	Yes	Yes
Magnetic stripe + keypad	Yes	Yes
Status monitors		
Mechanical key override (ATK)	Yes - software	Yes - software
Battery status (normal, low, critical)	Yes - SUS	Yes - SUS
Battery voltage level	Yes - SUS	Yes - SUS
Lock functions		
Classroom/storeroom	Yes	Yes
Office/toggle	Yes	Yes
Privacy	Yes	Yes
Apartment	No	Yes
Credential attributes		
Normal credential	Yes	Yes
Toggle credential	Yes	Yes
Pass through credential	Yes	Yes
Freeze credential	Yes	Yes
Licensing	Please contact Vanderbilt Industries to determine licensing requirements.	

Legend

Yes - software: This capability is monitored and reported in the SMS Software audit

Yes - SUS: This capability is monitored by the SUS

Available AD-250 readers



Magnetic stripe (swipe)
■ KEYPAD

Magnetic stripe (swipe)

Available CO-250 readers



Magnetic stripe (swipe)

Magnetic stripe (swipe)
■ KEYPAD

Compatibility

See lever and cylinder compatibility data sheet (010432).

Exit device compatibility

Exit device compatibility		Rim	SVR	CVR/CVC	Mortise
Von Duprin 98/99 and 98/99XP		■	■	■	■
Von Duprin 22/22F		■	■		
Falcon® 25		■			
Corbin Russwin® 5000		■			
Precision™ 21 ¹		■			
Yale® 7000		■			
Dorma® 9300		■			
Sargent® 80 ²		■			

1 2100 converts to 21 with Precision's BP21 kit

2 Narrow design & reversible rim exits not compatible

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



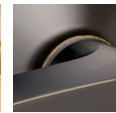
605
Bright brass



606
Satin brass

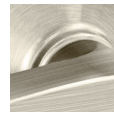


612
Satin bronze



643e
Aged bronze

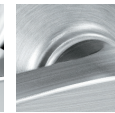
Cool tone finishes



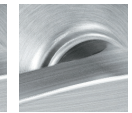
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
 005254, Rev. 02/17
www.allegion.com/us



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and PremiSys™

IDenticard®
ACCESS CONTROL



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with PremiSys™ to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage® NDE wireless lock with ENGAGE™ technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

The PremiSys NDE lock integration provides full system management for an unlimited number of locks across a network. It communicates directly with the NDE locks over Wi-Fi requiring no additional hardware or via GWE Gateway. Combining the features of an enterprise access control system with the convenience of the NDE locks, PremiSys provides detailed auditing reports, integration with video management systems, full-featured credential creation and management, and a mobile app for remote badging enrollment.

PremiSys also supports AD Series locks allowing you to combine both lock platforms into a single solution.

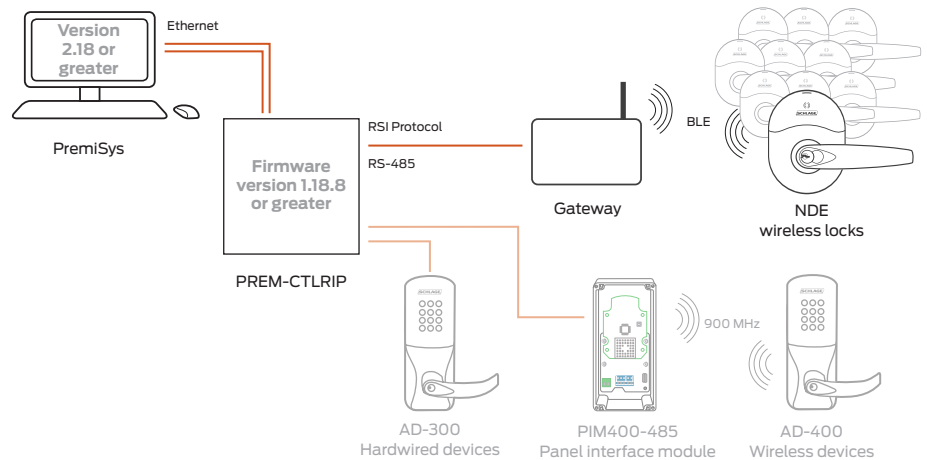
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with PremiSys™ and PREM-CTRLIP

- PREM-CTRLIP supports up to 64 NDE locks total
- PREM-CTRLIP supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each PREM-CTRLIP
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

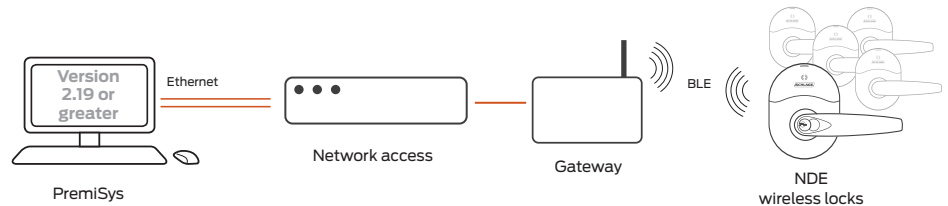
* Reference ENGAGE Gateway data sheet for additional details.



NDE locks with Gateway via IP (PoE)

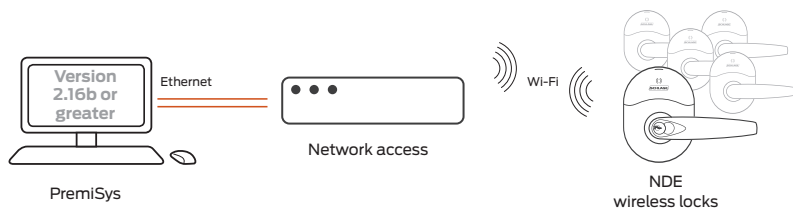
- PremiSys is capable of supporting an unlimited quantity of NDE locks
- PremiSys is capable of supporting an unlimited number of gateways
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Advanced offline solutions

- PremiSys supports an unlimited number of NDE locks



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE locks via Gateway (RS-485)	NDE via GWE IP PoE	Advanced offline solutions
Features			
Maximum number of locks supported by controller	64	N/A	N/A
Maximum number of locks supported via network access ¹	N/A	Unlimited	Unlimited
Real-time updates and event reporting	Yes	Yes	No
Maximum number of gateways per controller/Host	16	Unlimited	N/A
Maximum number of NDE locks per gateway	10	10	N/A
Access control decision made by Host software or by lock database	Controller	Lock	Lock
Remote linking capability via Host	Yes	Yes	No
Remote unlinking capability via Host	Yes	Yes	No
Credentials			
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes	Yes
PIV & PIV-I card compatible	No	N/A	N/A
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	No	Yes	N/A
Request to enter	No	No	N/A
Low battery status	Yes	Yes, per schedule	Yes
Communication Status BLE/RS-485	Yes	Yes	N/A
Remote lockdown/unlock	Yes (<5 sec)	No	No
Interior push button	No	No	N/A
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Licensing			
Please contact IDenticard to determine licensing requirements			

¹ Only applies to Direct Wi-Fi locks and IP Gateway Architectures

Please contact IDenticard Access Control for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

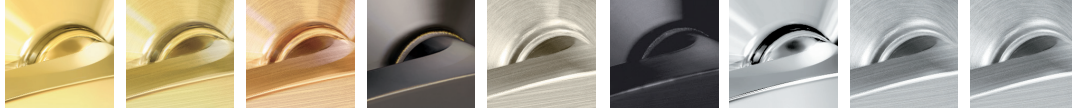
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) -

- reads card serial number only:
- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011081, Rev. 12/17
www.allegion.com/us



Integrated security solution

With AD-400/401 wireless devices and AxiomV™



Overview

Schlage AD Series wireless locks seamlessly integrate with AxiomV™ Systems to provide a cost effective and scalable access control solution to meet your security needs.

AxiomV™ Enterprise Security Management System for large multi-site/multi-tenant applications seamlessly integrates Access Control, Alarm Monitoring, Video Surveillance and more into an elegant and versatile building management and security system. Solid architecture and a highly customizable, flexible user interface provide powerful tools for Enterprise Security management. Robust and highly sophisticated hardware implements a variety of flexible solutions at a firmware level. Designed and manufactured “in house”, AxiomV™ offers unmatched longevity and will ensure a long life span for a security investment. AxiomV™ provides a sophisticated yet affordable solution for systems of all sizes.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

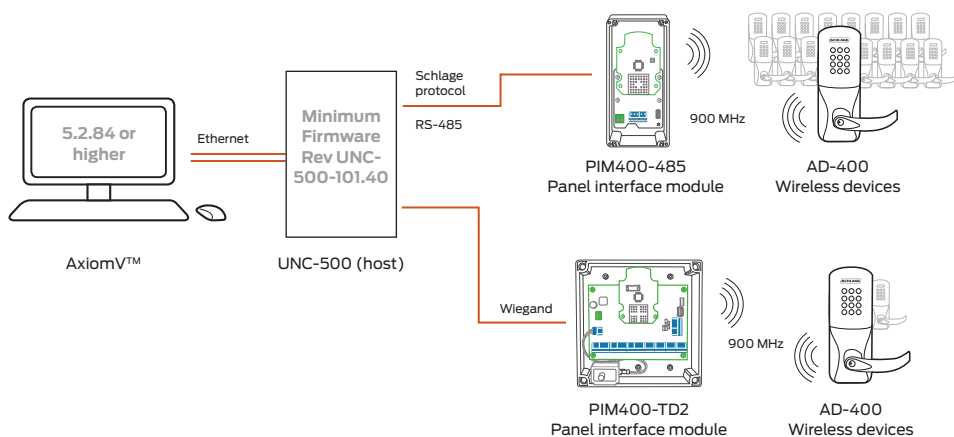
System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 and/or Wiegand with AxiomV

RS-485

- UNC-500 supports up to 14 AD-400 locks total in a RS-485 integration¹
- UNC-500 supports a maximum of 1 PIM400-485 per RS-485 port. Only 1 of the 3 RS-485 ports per UNC-500 controller can host a PIM400-485 module at any one point in time.
- Wireless range up to 200' in typical building construction, up to 1000' clear line of sight



Wiegand

- UNC-500 can support 1 or 2 AD-400 locks on 1 or 2 PIM400-TD2 Wiegand interface
- UNC-500 has 2 Wiegand ports.
- Each Wiegand port can support a single PIM400-TD2 with a single AD-400 per Wiegand port
- It is possible for a single PIM400-TD2 to connect to both Wiegand ports on the UNC-500 to control 2 AD-400 locks
- Wireless range up to 200' in typical building construction, up to 1000' clear line of sight

¹ 8RC license required for 14 locks without license will only support 6

Note:

Please refer to AD-400, PIM400-485, and PIM400-TD2 data sheets for complete AD Series specifications.

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-TD2 x RLBD ¹
Features		
Maximum number of readers supported by controller/PIM	14 ⁵	2
Maximum number of readers per PIM400	Up to 14 ⁵	Up to 2
Maximum number of PIM400s per RS-485 Port	1	N/A
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	No
Readers - see supported card formats below		
Keypad only	Yes (up to 10 digits)	Yes (up to 10 digits)
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible ²	Yes	Yes
Card + PIN	Yes (up to 5 digits)	Yes (up to 5 digits)
Status monitors		
Request to exit	Yes	No
Door position	Yes	Yes
Mechanical key override	Yes	No
Request to enter	No	No
Low battery status	Yes	Yes
Communication status: RF/RS-485	Yes/Yes	Yes ³
Remote lockdown/unlock	Yes (<10 sec)	Yes (<10 sec) ⁴
Deadbolt position	No	No
Interior push button	Yes	No
Lock functions		
Classroom/storeroom	Yes	Yes
Apartment	Yes	No
Privacy	Yes	No
Licensing	Please contact RBH to determine licensing requirements.	

Please contact
RBH Access for
additional details on
integrated features and
credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™
Cloud-based Web and Mobile Applications Data Sheet.

- 1 If Supervised Contacts are required.
- 2 FIPS 201 compliant option available: The AD-series can be used in applications which require approval by the US federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 data sheet for complete details.
- 3 Via Trouble Signal.
- 4 Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD.
- 5 8RC license required for 14 locks without license will only support 6

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

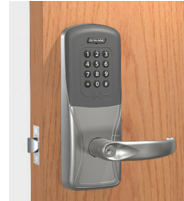
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



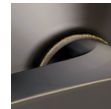
605
Bright brass



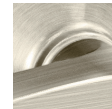
606
Satin brass



612
Satin bronze



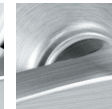
643e
Aged bronze



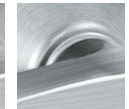
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009829, Rev. 09/17
www.allegion.com/us



EP1501/
AD-300
solution



Support up to
8 AD-300 LOCKS

PoE
Power up to 2 AD-300
locks from EP1501

2 door solution: EP1501/AD-300 is up to
20% LESS EXPENSIVE
than the traditional Around-the-Door Solution

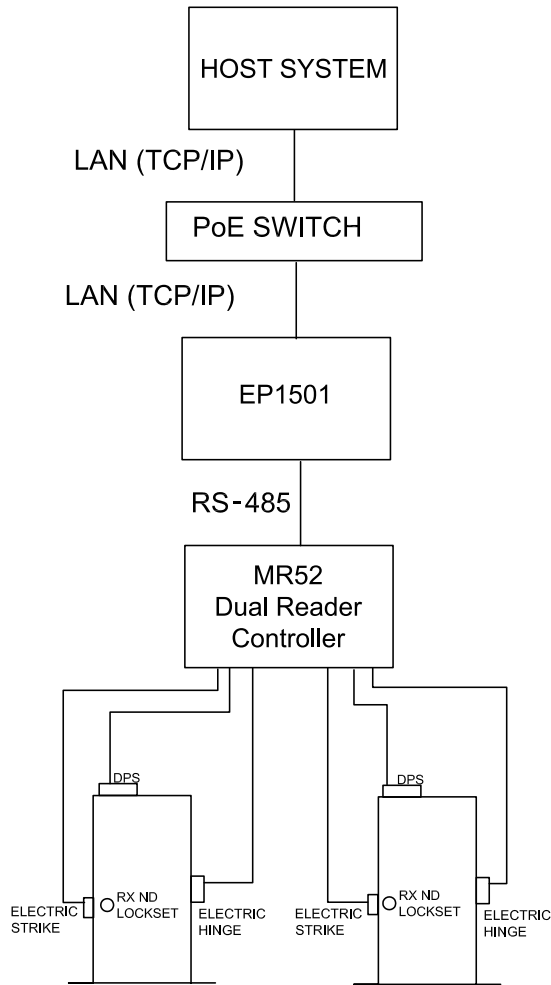
**LESS INSTALLATION
LABOR**

INTEGRATED DEVICE
Fewer parts to manage
and support for service

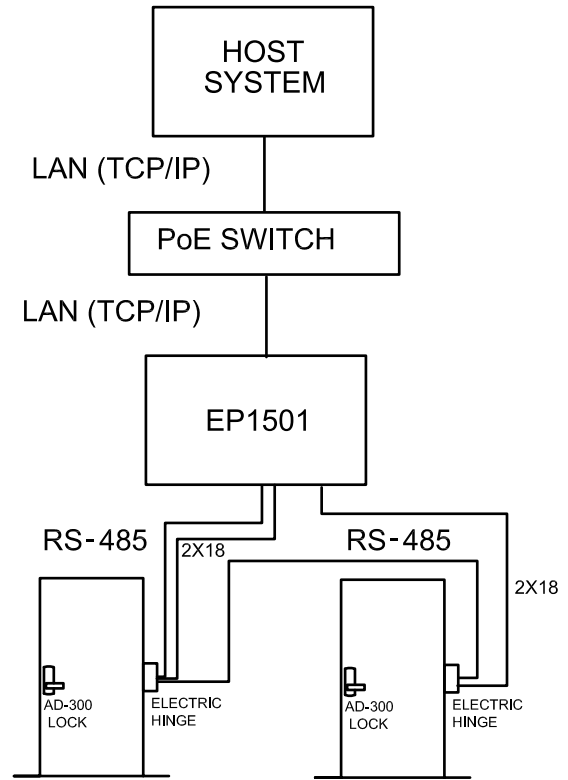
Up to
20% LESS
expensive
than the
traditional
solution

System diagrams

Around-the-Door solution



AD-300 solution



Assumptions:

- EP1501 (Firmware Rev. 1.187 or higher)
- Around Door Solution: Electrified mechanical lock with integrated request to exit switch

Allegion, the Allegion logo, Schlage, and the Schlage logo are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and C•CURE 9000

SOFTWARE HOUSE



Overview

Schlage® NDE and LE locks with ENGAGE™ technology seamlessly integrate with Software House C•CURE 9000 security and event management system to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

C•CURE 9000 is one of the industry's most powerful and flexible security management systems. Monitor events, manage personnel, create reports, display dynamic views, view video and manage visitors and credentials from a robust web portal. You can even monitor system activity anywhere in the world directly from your PC using the full C•CURE 9000 client, C•CURE Web, or on the move with C•CURE Go mobile app. This flexibility in customization grants security professionals the freedom to deploy a unique security solution no matter where they reside.

System Capabilities Summary

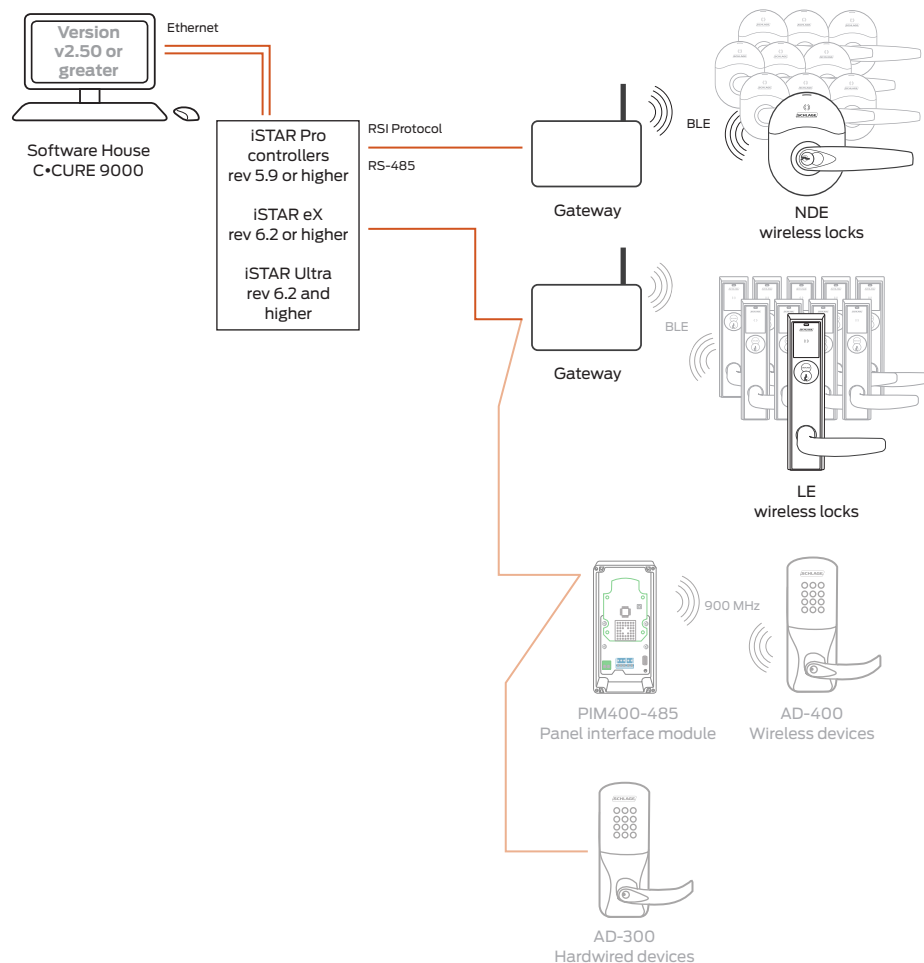
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Cylindrical chassis for NDE and mortise chassis for LE
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with C•CURE 9000 and iSTAR door controller

- iSTAR Ultra door controller has 2 RS-485 ports and each port can support up to 16 locks, for a total of 32 locks per iSTAR Ultra
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Although not detailed here, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Software House C•CURE 9000 AD Series solution sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information please visit the Software House website at www.swhouse.com

System capabilities:

	NDE/LE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	16 per iSTAR Pro and 32 per iSTAR Ultra
Maximum number of locks supported via network access	N/A
Maximum number of gateways per controller/Host	16 per iSTAR Pro and 32 per iSTAR Ultra
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	No
Update frequency	N/A
Schedules	N/A
Holidays	N/A
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	No
Deadbolt position	No
Lock functions	
Classroom/storeroom	Yes
Privacy (for LE locks only)	Yes, LE locks only
Licensing	
Please contact Software House to determine licensing requirements	

Please contact Software House for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

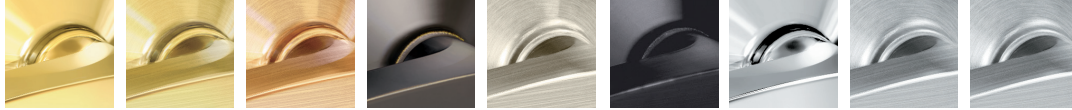
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon



Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011292, Rev. 12/17
www.allegion.com/us

For additional information please visit the Software House website at www.swhouse.com

Corridor and main passageway doors

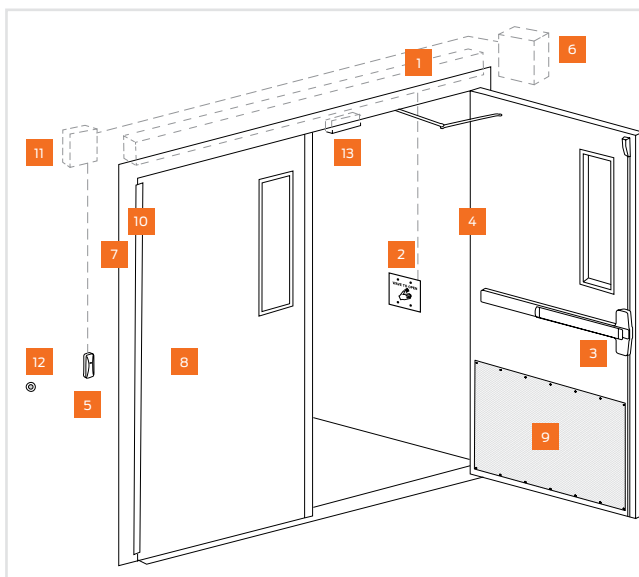
Government solutions

Cross-corridor openings service a high level of traffic within a government facility. Because these doors often serve as the main openings for staff, visitors and equipment, security and safety are the two top priorities.

Meeting and maintaining fire codes is needed, as well as the ability for these doors to be capable of lockdown in the event of an emergency.

Corridor and main passageway door operational requirements:

- Doors are usually locked during the day
- There should be free access and egress by actuators
- Doors need to be secured after hours
- Access by valid credential
- Magnetic door holders need to be wired to the fire alarm system
- Magnetic door holders are released upon signals from the fire alarm system



Standard features

Building and safety codes may vary, but most cross-corridor doors include these standard features:

- | | | | |
|---|-------------------------------|----|------------------------------|
| 1 | LCN automatic closer | 8 | Steelcraft door |
| 2 | LCN touchless actuator | 9 | Ives kickplate |
| 3 | Von Duprin exit device | 10 | Ives continuous hinge |
| 4 | Von Duprin power transfer | 11 | Schlage reader interface |
| 5 | Schlage reader | 12 | Ives wall stop |
| 6 | Schlage power supply | 13 | Schlage door position switch |
| 7 | Steelcraft hollow metal frame | | |

Note: Please refer to Allegion's BAA catalog for a full selection of BAA compliant hardware options.

Innovative solutions for corridor and main passageway doors

Corridor and main passageway doors in government buildings demand security solution designed specifically for their unique security needs. Because these doors also play a key role in lockdown, they must also support critical fire and life safety needs. Allegion brings it all together.

aptiQ™ multi-technology readers

- Multi-technology readers are a unique and critical component of successful security credential upgrades
- aptiQ readers are approved by the U.S. Government under HPSD-12* for FIPS 201-1** compliance as PIV Transparent Readers
- Compatible with many standard proximity and leading smart card technologies
- Available with numerous data formats

A more secure perimeter starts with the most reliable products

Corridor and main passageway doors are among the most used doors in government buildings. Allegion delivers a solution with tough, durable hardware, keeping buildings safe and secure.

- Von Duprin® 99 Series exit devices for fire and life safety
- LCN® premium door closers leading the industry in quality, durability and innovation
- High-quality doors, frames and hardware help you maintain fire codes, ensure damage to the opening doesn't compromise fire resistance, and create a separation point in case of emergency



* For more information visit <http://www.dhs.gov/homeland-security-presidential-directive-12>

**Refers to Federal Information Processing Standard Publication 201

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.

Start with Allegion

Call **855-614-5874**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions

Visit **us.allegion.com/industries/government**

- Access information on our comprehensive BAA Compliant Product Guide for selecting American-made products
- Find LEED certified, ADA and FIPS 201 compliant solutions and services
- Access Cooperative Purchasing 'where to buy' information



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.





Integrated security solution

with AD-400 wireless and AD-300 hardwired locks and GMS Software by PACOM



Overview

The AD Series electronic locking platform is designed to be open and flexible. With its open architecture, the AD-Series can be seamlessly integrated into the Pacom access control system with 1057, 1058, 8001 and 8002 Series of controllers.

Schlage AD Series electronic locks combine the components typically found around the door; such as the reader, door position switch and the request-to-exit switch into one device; which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

Schlage AD Series are available in hardwired and wireless configurations. For new construction, the AD-300 hardwired locks provide all of the benefits of a traditional access control solution. For existing facilities, the AD-400 wireless locks provide real time access control with GMS Software without having to run wires direct to each opening.

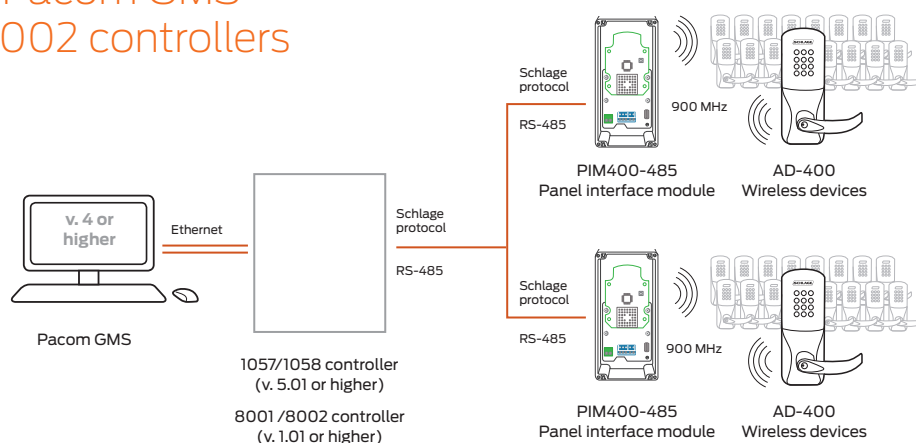
The AD Series can be customized with seven (7) different credential reader options including keypad, magnetic stripe (insert and swipe) and multi-technology which reads both 125 kHz proximity and 13.56 MHz smart cards and Card + PIN credentials. Designed to be modular, readers can easily be upgraded in the future to meet your changing credential needs.

System Capabilities Summary

- AD-400 wireless applications:
 - 1057, 8001 and 8002 Controllers support up to 64 AD-400 locks
 - 1058 Controller supports up to 16 AD-400 locks
 - 900 MHz communication between AD-400 and PIM400 for secure, AES-128 bit encrypted transmission
 - Patent-pending wireless lockdown feature (10 seconds or less) in use with PIM400-TD2, preserves up to 2 year battery life
- AD-300 hardwired applications:
 - 1057, 8001 and 8002 controllers support up to 64 AD-300 locks
 - 1058 Controller supports up to 16 AD-300 locks
 - Field configurable fail safe/fail secure
- Additional details on readers supported and chassis types available on page 3 and 4
- Wireless accessories available for remote, gate, elevator, and portable (mustering) applications
- AD-Series meets ANSI/BHMA A156.25, ANSI/BHMA Grade 1 requirements and is UL 294 Listed

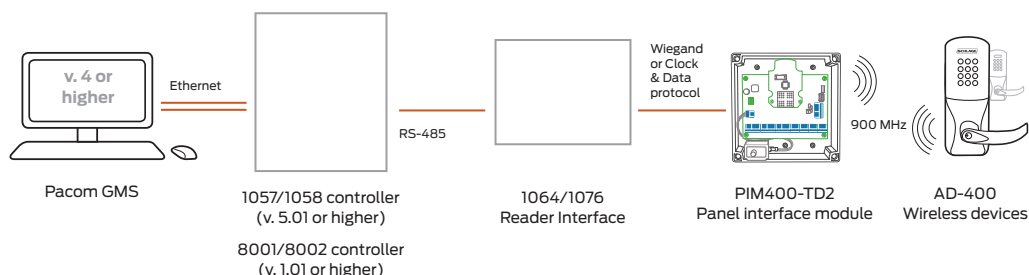
AD-400 via RS-485 with Pacom GMS and 1057, 1058 or 8001/8002 controllers

- Pacom 1057/1058/8001/8002 controllers support up to 4 PIMs per RS-485 port
- Pacom supports up to 16 devices per PIM. Up to 64 devices total on 1057, 8001/8002
- 1057 controller has up to 6 RS-485 ports depending on configuration
- 1058 controller has up to 2 RS-485 ports depending on configuration
- 8001 & 8002 controllers have up to 5 RS-485 ports depending on configuration
- Wireless range up to 200' in typical building construction



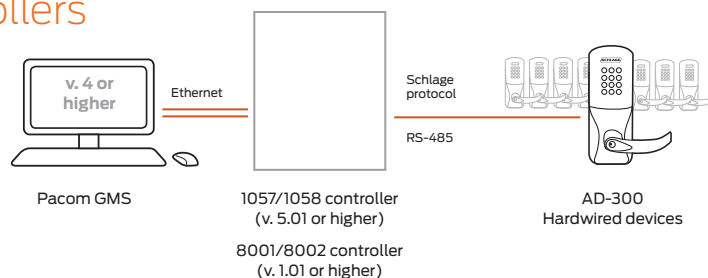
AD-400 via Wiegand with Pacom GMS and 1057, 1058, 8001 or 8002 controllers

- Each PIM400-TD2 supports up to 2 AD-400 devices
- 1064 Reader Interface supports 1 PIM400-TD2
- 1076 Reader Interface supports 2 PIM400-TD2
- Wireless range up to 200' in typical building construction



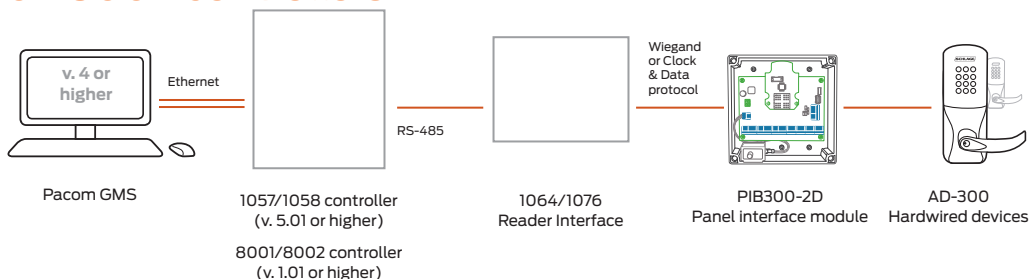
AD-300 via RS-485 with Pacom GMS and 1057, 1058, 8001 or 8002 controllers

- Pacom 1057/1058/8001/8002 controllers support up to 8 AD-300 locks per RS-485 port
- 1057 controller has up to 6 RS-485 ports depending on configuration
- 1058 controller has up to 2 RS-485 ports depending on configuration
- 8001/8002 controller has up to 5 RS-485 ports depending on configuration



AD-300 via Wiegand with Pacom GMS and 1057, 1058 or 8001/8002 controllers

- PIB300-2D supports up to 2 AD-300 hardwired locks
- 1064 Reader Interface supports 1 PIB300-2D
- 1076 Reader Interface supports 2 PIB300-2D



Note:

Please refer to AD-300/PIB300-2D (ES-5532), AD-400 (ES-5531), PIM400-485 (ES-5536), and PIM400-TD2 (ES-5535) data sheets for complete AD Series specifications.

For additional information contact Pacom: 1.866.867.2266 or www.pacom.com

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-TD2	AD-300 Direct RS485	AD-300 PIB300-2D
Features				
Maximum number of readers supported by controller/PIM/PIB	64	16	64	64
Maximum number of readers per PIM400/PIB300	16	16	N/A	2
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	up to 8	N/A
Access control decision made by controller or by lock database	Controller	Controller	Controller	Controller
Remote Linking capability via Host	No	No	N/A	N/A
Readers - see supported card formats below				
Keypad only	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes	Yes
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes
Request to enter	Yes	No	Yes	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes	Yes
Remote lockdown/unlock	Yes (per heartbeat)	Yes (<10 sec) ²	Yes	Yes
Deadbolt position	No	No	No	No
Interior push button	No	No	No	No
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes
Licensing Please contact Pacom to determine licensing requirements				

Please contact Pacom for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible I

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ Solution is able to read PIV & PIV-I credentials, however is not FIPS 201 compliant

² Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

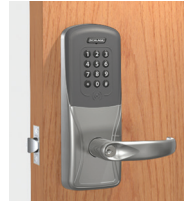
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



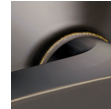
605
Bright brass



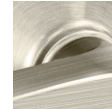
606
Satin brass



612
Satin bronze



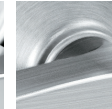
643e
Aged bronze



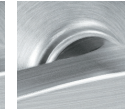
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005135, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400 wireless devices and Keep by Feenics

Feenics



Overview

Schlage AD Series wireless locks seamlessly integrate with Keep by Feenics software to provide a cost effective and scalable access control solution.

Keep by Feenics seamlessly integrates into the Schlage AD400 series of wireless locks by Allegion. This integration allows customers to leverage both the security and convenience of the Schlage wireless locks while harnessing the power of an open, cloud based security platform.

Keep by Feenics is a true cloud based access control and ID management platform based on industry standard hardware. Keep is the only product to offer customers a choice of a manufacturer hosted, VAR hosted, or traditional on premise (private cloud) deployment methodologies.

The partnership between Allegion and Feenics allows customers to connect a PIM400 to an FN-C1501 or FN-C3200 via RS485, which communicate directly to the server in the cloud. This allows for light weight deployments and low infrastructure costs, while having a powerful and innovative solution.

AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications, the Schlage AD Series wireless locks eliminate the need to run wires direct to each opening and can help extend the reach of your access control system.

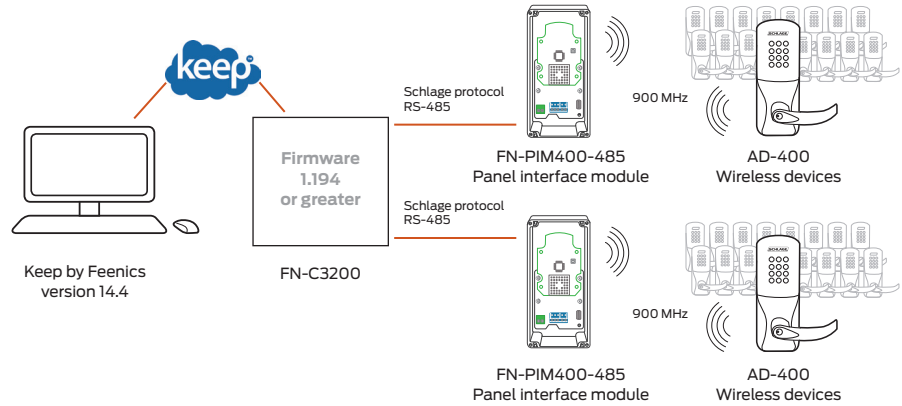
AD Series wireless locks combine the components typically found around the door, such as the door position switch and the request-to-exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
- Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less preserves up to 2 year battery life)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485

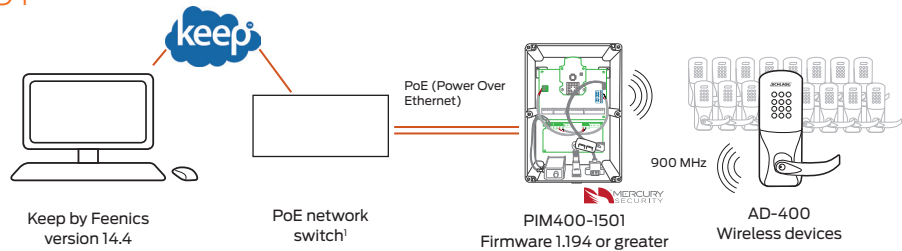
- FN-C3200 supports up to 64 AD Series locks total
- FN-C3200 supports a maximum of 8 PIM400-485s per RS-485 port
There are 2 ports on each
- Wireless range up to 200' in building construction, up to 1000' line of sight



AD-400 via PIM400-1501

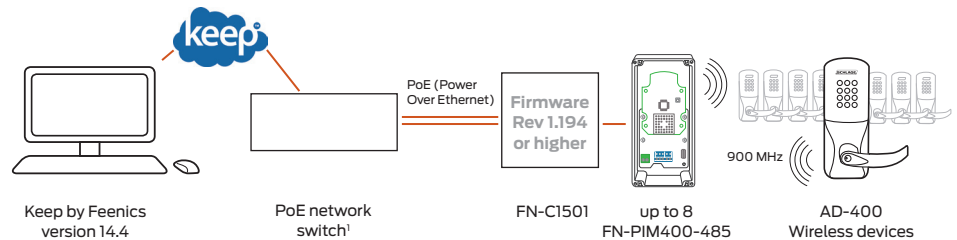
- PIM400-1501 supports up to 16 AD-400 devices
- Wireless range Up to 200' in building construction, up to 1000' line of site

¹ In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-400/401 via RS-485 with Feenics FN-C1501

- FN-C1501 can control a total of up to 8 PIM400-485 and up to 16 AD-400 on a common RS-485 data line
- FC-C1501 can PoE (Power Over Ethernet) 2 PIM400-485
- Remaining up to 6 PIM400-485 will be powered from an external 12/24VDC power supply.



Note:

Please refer to AD-400, PIM400-485, and WPR400 data sheets for complete AD Series specifications

System capabilities:

	AD-400 PIM400-485 Feenics FN-C3200	AD-400 PIM400-1501	AD-400 RS-485 Feenics FN-C1501
Features			
Maximum number of readers supported by controller/PIM	64	16	16
Maximum number of readers per PIM400	16	16	16
Maximum number of PIM400s per RS-485 port	8	N/A	8
Access control decision made by host or by lock database	Host	Host	Host
Remote Linking capability via Host	Yes	Yes	Yes
Readers - see supported card formats below			
Keypad only	Yes (up to 15 digits)	Yes (up to 15 digits)	Yes (up to 15 digits)
Magnetic stripe card	No	No	No
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes (up to 75 bit only)	Yes	Yes
Card + PIN	Yes (up to 15 digits)	Yes (up to 15 digits)	Yes (up to 15 digits)
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes
Request to enter	Yes	Yes	Yes
Low battery status	Yes	Yes	Yes
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes /Yes
Remote lockdown/unlock	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes (<10 Sec) ²
Deadbolt position	Yes	Yes	Yes
Interior push button	Yes	Yes	Yes
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Office/toggle	Yes	Yes	Yes
Privacy	Yes	Yes	Yes
Apartment	Yes	Yes	Yes
Licensing	Please contact Feenics to determine licensing requirements.		

Please contact Feenics for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Feenics to confirm they are able to support your FIPS 201-1 credential format.

² While in a door group configuration

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

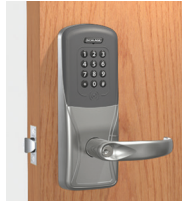
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400)



Cylindrical Lock (AD-300/400)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



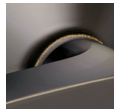
605
Bright brass



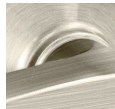
606
Satin brass



612
Satin bronze



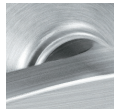
643e
Aged bronze



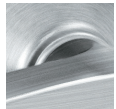
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
010759, Rev. 09/17
www.allegion.com/us



Integrated security solution

with NDE Series wireless locks featuring ENGAGE™ technology and Brivo



Overview

Schlage® NDE Series locks with ENGAGE™ technology seamlessly integrate with Brivo to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE Series wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

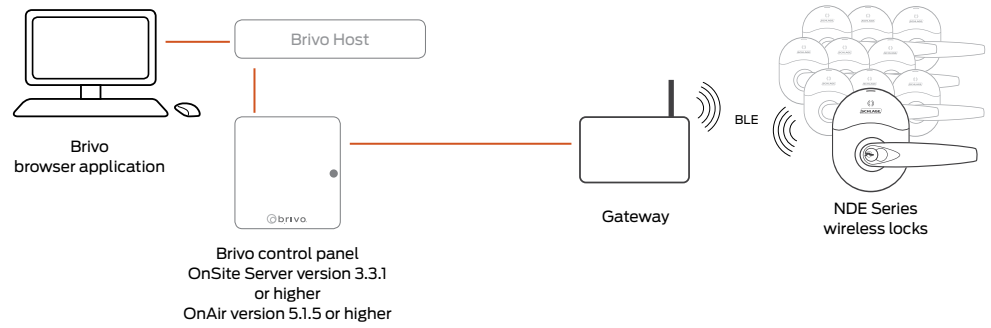
Brivo specializes in cloud-based building security solutions. Brivo's innovative physical access control and video solutions empower organizations by giving administrators real-time visibility of security events and video in local or remote facilities—anytime, anywhere.

System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE Series locks via Gateway (RS-485)

- ACS5000 control panel supports up to 30 NDE locks
- ACS5000 control panel supports up to 4 gateways
- Wireless range of up to 100' from gateway to NDE



Note:

Please refer to NDE Series locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Brivo Inc.: 1-866-MY-BRIVO or sales@brivo.com

System capabilities:

	NDE Series locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	30
Maximum number of locks supported via network access ¹	0
Maximum number of gateways per controller/Host	4
Maximum number of NDE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	No
Update frequency	N/A
Schedules	Yes
Holidays	Yes
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	N/A
Lock functions	
Classroom/storeroom	Yes
Licensing	
Please contact Brivo to determine licensing requirements	

¹ Only applies to Direct Wi-Fi locks and IP Gateway architecture

Please contact Brivo for additional details on integrated features and credentials supported.

Supported card formats

Proximity cards (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart cards (13.56 MHz):

- aptiQ® MIFARE Classic
- aptiQ MIFARE DESFire™ EV1

Smart cards (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire™ EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes

Standard cylinders shown, SFIC and FSIC also available.



619 - Satin nickel



626 - Satin chrome



626AM - Satin chrome
with antimicrobial



625 - Bright chrome



643e - Aged bronze



605 - Bright brass



606 - Satin brass



612 - Satin bronze

Lever styles



Athens



Rhodes



Sparta

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
011290, Rev. 03/17
www.allegion.com/us

For additional information contact Brivo Inc.: 1-866-MY-BRIVO or sales@brivo.com



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and DNA Fusion™ by Open Options



Overview

Schlage® NDE and LE locks with ENGAGE™ technology seamlessly integrate with DNA Fusion™ by Open Options to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

DNA Fusion™ is the standard in open platform access control software. It's designed using the very latest in software development technology and contains numerous customer-centric features that provide a truly user-friendly experience.

DNA Fusion by Open Options also supports AD Series locks allowing you to combine both lock platforms into a single solution.

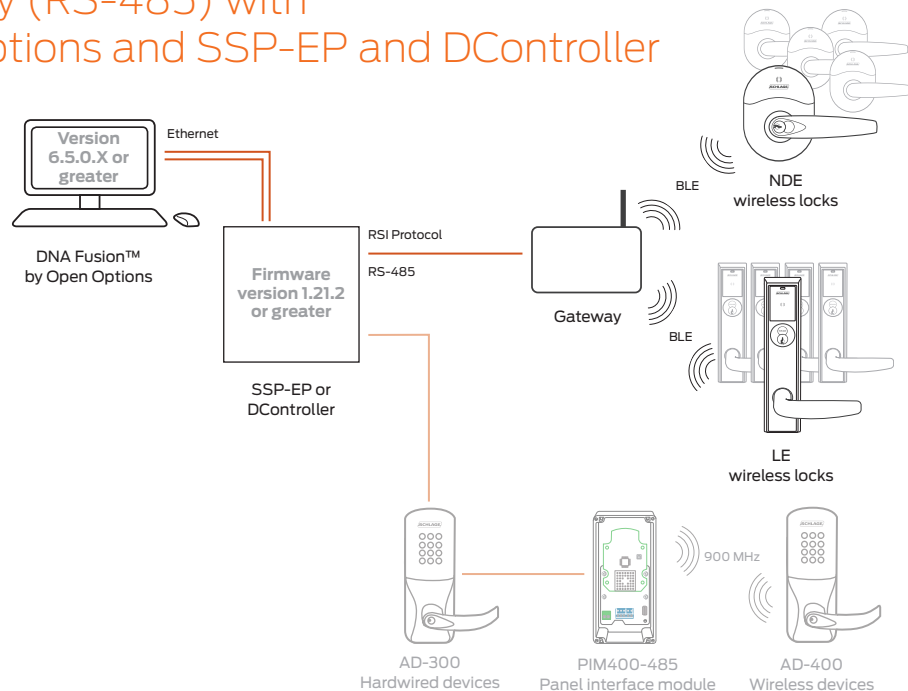
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with DNA Fusion™ by Open Options and SSP-EP and DController

- SSP-EP supports up to 64 NDE/LE locks total
- SSP-EP supports a maximum of 8 gateways or PIM400-485 or AD-300 per RS-485 port
- There are 2 ports on each SSP-EP
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*
- DController has a single RS485 port that supports up to 8 GWE and up to 17 NDE/LE locks

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Open Options: 877.818.7001 or www.ooaccess.com

System capabilities:

	NDE/LE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	64 for SSP-EP or 17 for DController
Maximum number of locks supported via network access	N/A
Maximum number of gateways per controller/Host	16 for SSP-EP or up to 8 for DController
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	Yes
Update frequency	N/A
Schedules	N/A
Holiday	N/A
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button - LE only	No
Mortise deadbolt - LE only	Yes
Lock functions	
Classroom/storeroom	Yes
Office - LE only	Yes
Privacy - LE only	Yes
Apartment - LE only	Yes
Licensing	
Please contact Open Options to determine licensing requirements	

Please contact Open Options for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

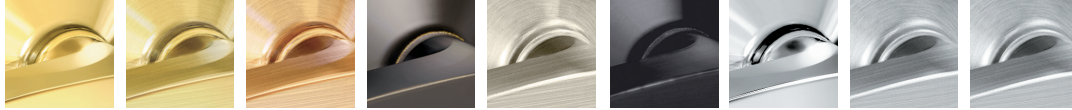
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011282, Rev. 12/17
www.allegion.com/us



Offline security solution

with CO-200, AD-200, CT5000
with Schlage Express™



Overview

Schlage's standalone access control solutions deliver the convenience and efficiency you desire at a fraction of the cost of a networked system. With the Schlage Express™ Offline Access Control Software, system installation, set-up and management are a breeze.

Save even more time and money on installation with AD Series and CO Series electronic locks. Their innovative integrated design combines components typically found around the door, such as the credential reader, request-to-exit switch and door position switch. Therefore there are no wires to run and labor is greatly reduced. An easy-to-use handheld device transfers information from the system to the lock. The handheld device can also be used to retrieve audits from devices.

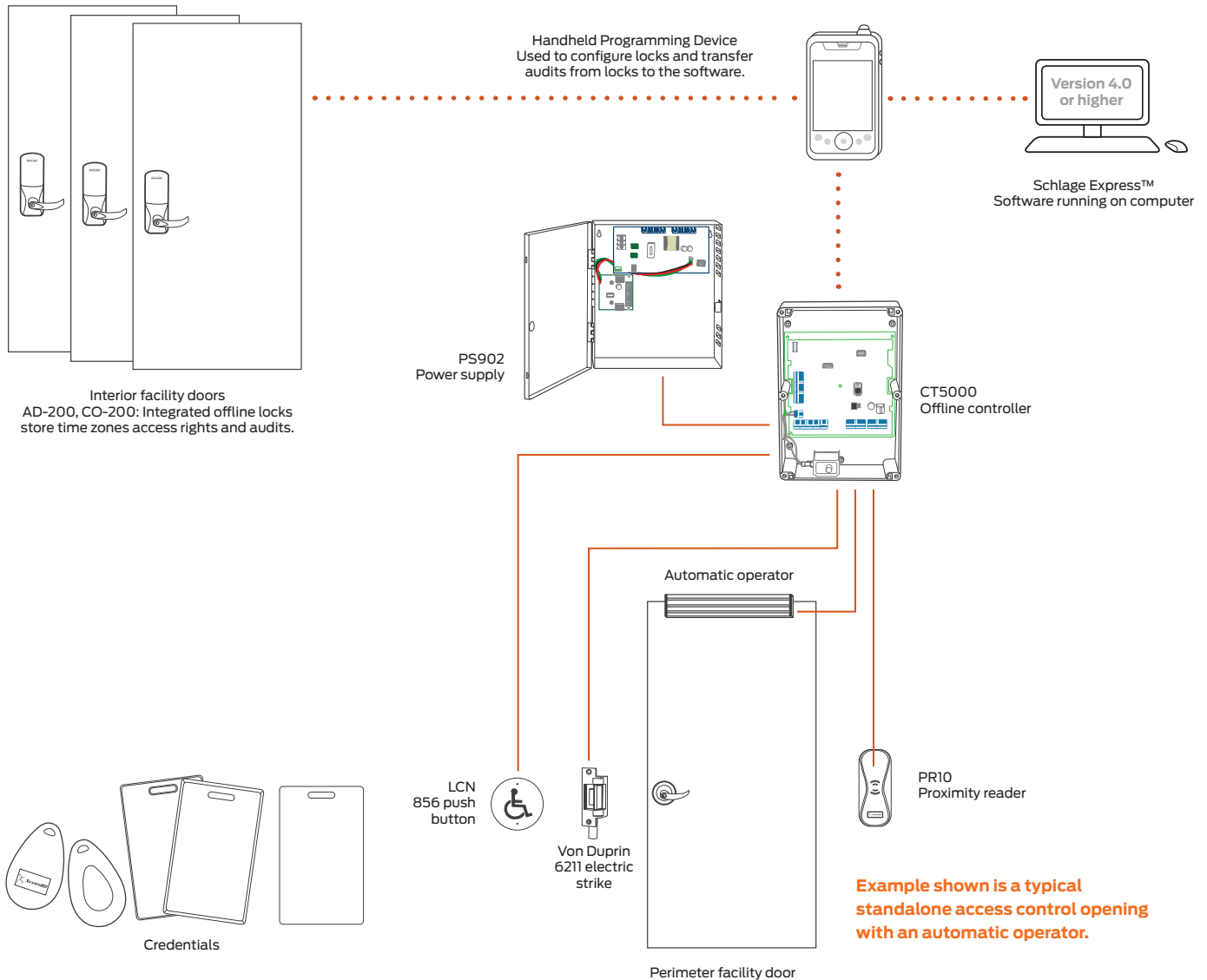
Need help deciding between the AD Series and CO Series? The AD Series is the ideal solution if you want flexibility. The modular design of the AD Series allows you to upgrade from standalone to networked if your needs change in the future. The AD Series also allows you to upgrade credential readers. The CO Series is preferable if you do not expect your needs to change. CO Series options are factory orderable rather than upgradable like the AD Series.

For applications that require an around-the-door solution, the CT5000 offline single opening controller is available. It is an ideal solution for narrow stile applications because it can support up to two separate Wiegand readers as well as interface with peripheral devices such as automatic operators, electric strikes, and electromagnetic locks. If networked functionality is required in the future, the CT5000 can be upgraded to a WRI400.

System Capabilities Summary

- Schlage Express™
 - Supports up to 2000 users/audits with 50 locks or 1000 users/audits with 100 locks
 - Supports up to 8 times zone and up to 16 holidays
 - Set up to 16 auto unlock schedules per system (up to 8 per lock)
- AD-200
 - Upgradable credential and communication modules
 - Additional details on readers supported and chassis types available on page 3 and 4
 - Classroom/Storeroom, Office, Apartment and Privacy functions
 - UL 294 listed, ANSI/BHMA A156.25 and ANSI/BHMA Grade 1 certified
- CO-200
 - Additional details on readers supported and chassis types available on page 3 and 4
 - Classroom/Storeroom, Office and Privacy functions
 - UL 294 listed, ANSI/BHMA A156.25 and ANSI/BHMA Grade 1 certified
- CT5000
 - Supports up to two Wiegand reader inputs
 - Has three form C relay outputs for strike, auxiliary and alarm
 - Can be upgraded to WRI400 if networked capability is required in the future
 - UL 294 listed

System diagram



Benefits

- Cost-effective, simple means of controlling access within your facility.
- New users or access points can be entered into the system in seconds.
- Comprehensive reporting on audit trails retrieved, access attempts, etc.

Complete Your System

- The Schlage Utility Software (SUS) on the Handheld Programming Device (HHD) provides an easy way to retrieve audits and transfer information between your access control software and electronic locks.
- The combo proximity keyfobs with iButton® option is available which allows you to manage proximity and iButton® technologies in the same facility.
- Schlage offers many contactless, keypad and magnetic stripe readers that are compatible with the CT5000.
- We offer a complete portfolio of credentials including smart, proximity and magnetic stripe. Multi-technology credentials are also available.

Note:
Complete specifications are detailed on individual data sheets which can be found on www.schlage.com/support.

For additional information contact Allegion: 877.671.7011 or www.allegion.com/us

System capabilities¹:

	Offline controller CT5000 ²		Integrated standalone electronic locks			
			CO-200		AD-200	
System capacity						
Number of doors	50	100	50	100	50	100
Number of users/audits	2000	1000	2000	1000	2000	1000
Holidays	16		16		16	
1st person in	Yes		Yes		Yes	
Time zones	8		8		8	
Readers - see supported card formats below						
Keypad only	Yes		Yes		Yes	
Magnetic stripe card	Yes		Yes		Yes	
125 kHz prox card	Yes		Yes		No	
13.56 MHz smart card	Yes ³		No		No	
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes ³		No		Yes ³	
PIV & PIV-I card compatible	No		No		No	
Card + PIN	Yes (3-6 digit PIN)		Yes (3-6 digit PIN)		Yes (3-6 digit PIN)	
Status monitors						
Request to exit	Yes - Locally		No		No	
Door position	Yes - Locally		Yes		Yes ⁴	
Mechanical key override (ATK)	No		Yes - software		Yes - software	
Battery status (normal, low, critical)	N/A		Yes - SUS		Yes - SUS	
Battery voltage level	N/A		Yes - SUS		Yes - SUS	
Remote release	Yes - Locally		No		No	
Lock functions						
Classroom/storeroom	N/A		Yes		Yes	
Office/toggle	N/A		Yes		Yes	
Privacy	N/A		Yes		Yes	
Apartment	N/A		No		Yes	
Credential attributes						
Normal credential	Yes		Yes		Yes	
Toggle credential	Yes		Yes		Yes	
Pass through credential	Yes		Yes		Yes	
Visitor/one time use credential	Yes		Yes		Yes	
Freeze credential	Yes		Yes		Yes	

Legend

Yes-Locally: This capability is available locally at the controller

Yes-Software: This capability is monitored and reported in the Schlage Express software audit

Yes-SUS: This capability is monitored by the SUS

Please contact Allegion for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Credentials required will be dependent upon reader selected for AD/CO/CTE reader.

- 1 Features such as the expanded number of users and audits are only available in the updated Schlage Express™ v4.0. Previous versions did not include AD Series and CO Series lock type labels.
- 2 CT5000 is an offline single opening controller that can support up to two separate Wiegand reader inputs; grid references system capacity of access control software—this may be limited by choice of reader.
- 3 Additional card formats may be supported. Verify compatibility by using the CRP-2 enrollment reader or by calling technical support for verification
- 4 Yes for AD-200 and CO-200 in 40 Privacy or 60 Apartment function.

Available AD-200 readers



Multi-technology

- Proximity
- Smart card
- KEYPAD

Multi-technology

- Proximity
- Smart card

Magnetic stripe (insertion)

- KEYPAD

Magnetic stripe (insertion)

Magnetic stripe (swipe)

- KEYPAD

Magnetic stripe (swipe)

Keypad

Available CO-200 readers



Keypad

Proximity

Proximity

- KEYPAD

Magnetic stripe (swipe)

Magnetic stripe (swipe)

- KEYPAD

Compatibility

See lever and cylinder compatibility data sheet (010432).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta

Rhodes



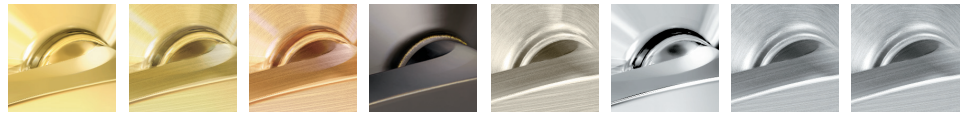
Athens

Tubular

Finishes

Warm tone finishes

Cool tone finishes



605 Bright brass

606 Satin brass

612 Satin bronze

643e Aged bronze

619 Satin nickel

625 Bright chrome

626 Satin chrome

626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2018 Allegion
005105, Rev. 01/18
www.allegion.com/us



Integrated security solution

with NDE and LE Series wireless locks featuring ENGAGE™ technology and Blackboard Transact

Blackboard
transact™



Overview

Schlage® NDE or LE Series locks with ENGAGE™ technology seamlessly integrate with Blackboard Transact to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE Series wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

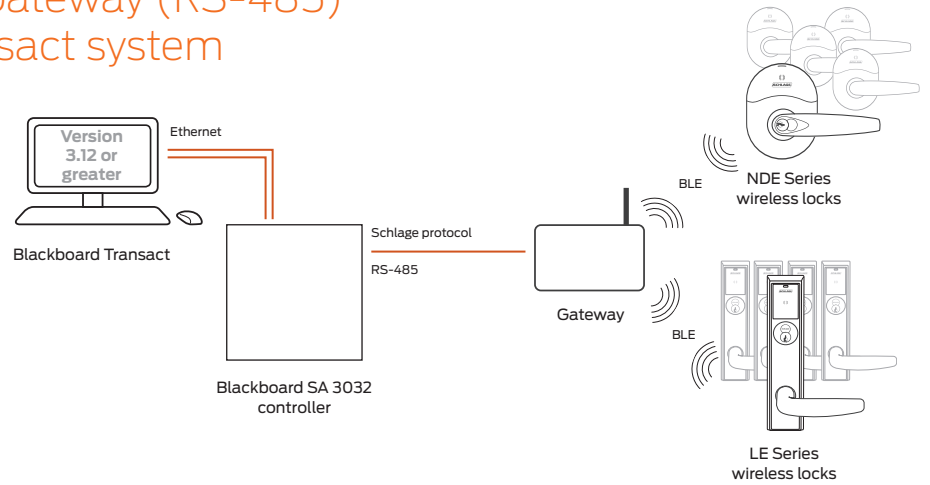
Blackboard Transact provides commerce and security management solutions and financial services that make the lives of students more convenient and secure. Today, hundreds of colleges and universities rely on the Blackboard Transact integrated technology platform to deliver reliable and sophisticated capabilities that power payments on-campus, off-campus and online. Blackboard Transact is also a leader in campus security solutions including access control, video surveillance and mass notification.

System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE Series locks via Gateway (RS-485) with the Blackboard Transact system

- Blackboard SA 3032 controllers will support up to 16 GWE gateways on a common RS485 line with a total of up to 16 total locks
- Wireless range up to 100'



Note:

Please refer to NDE/LE Series locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Transact: 1.800.528.0465 or www.blackboardtransact.com

System capabilities:

	NDE/LE Series locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	16
Maximum number of locks supported via network access	N/A
Real-time updates and event reporting	Yes
Maximum number of gateways per controller/Host	up to 16
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Blackboard Transact software
Remote linking capability via Host	Yes
Remote unlinking capability via Host	Yes
Update frequency	N/A
Schedules	N/A
Holiday	N/A
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button - LE only	Yes
Mortise deadbolt - LE only	No
Lock functions	
Classroom/storeroom	Yes
Office - LE only	No
Privacy - LE only	No
Apartment - LE only	No
Licensing	
Please contact Blackboard to determine licensing requirements	

Please contact Blackboard for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

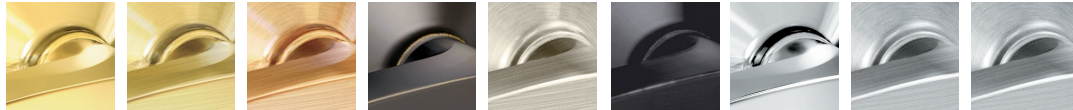
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black* 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

* Coming Q2 2017

Lever styles

NDE levers



Athens



Rhodes



Sparta

LE levers



03
(Suites with Tubular)



06
(Suites with Rhodes)



07
(Suites with Athens)



17
(Suites with Sparta)

Available in 28 levers and two knob styles including most M Series decorative lever options.

Escutcheon styles



Addison escutcheon



Greenwich sectional

Allegion, the Allegion logo, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, aptiQ and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011273, Rev. 09/17
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal



Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.

Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enable maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability
- Employee self-service kiosk functions
- Real-time communications

Polygrammic

Founded in 2008 by professionals with more than a decade of experience in timekeeping and biometric hardware and software, the Polygrammic business stands out in the management of time clocks by providing scalable, secure, easy to manage, enterprise level device management software. The company's flagship product, Graphite Device Manager, simultaneously manages a large number of geographically distributed terminals in real-time. Graphite Device Manager integrates with any timekeeping/gate access system through database or web service from a single installation instance and supports SaaS or on-site installation models. Leveraging the strong partnership with Schlage and expert-level knowledge of the GT-400 device, Polygrammic offers a fully customizable "push" device solution that can be installed without any modifications to a client firewall. The company's innovative COTS product enables easy integration, reduces implementations cost, minimizes time to production and enhances employee self-service capabilities. Graphite Device Manager also supports F-series clocks (HandPunch 1000 - HandPunch 4000).

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Software specifications

Inputs and outputs:	<ul style="list-style-type: none">USB printer outputTamper monitoring
Special features:	<ul style="list-style-type: none">Software as a Service (SaaS) solutionCentralized databaseHand template managementRemote troubleshootingAuto configurationDebug loggingDouble-punch restrictionAutomated data synchronizationForeign language support (English characters only)Data encryption
Credential inputs:	<ul style="list-style-type: none">PIN - ID (digit length)Barcode card reader
Supervisor capabilities:	<ul style="list-style-type: none">Enroll employee hand templateAdd punch for specific employeeAdd schedule for specific employeeReview employee schedulesReview employee timecardsReal-time employee data managementHolidays schedulingBell scheduling
Employee capabilities:	<ul style="list-style-type: none">Department/job transferReview last punchReview schedulesReview accrual balancesReview timecardRequest time off (vacation, sick)Trigger relayTip entryLunch punch lockout (minimum break length)Employee messages

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009218, Rev. 05/14
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and CDVI's web-enabled ATRIUM system



Overview

Schlage® NDE or LE locks with ENGAGE™ technology seamlessly integrate with CDVI's web-enabled ATRIUM system to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

CDVI's ATRIUM access control system redefines ease of use and performance. Manage up to 500 doors. Combine Allegion® NDE, LE and AD Series locks and/or 125kHz prox, 13.56 MHz smart card readers and keypads. Setup of these devices is a breeze with ATRIUM's FREE software or embedded web server using any web browser, smart phone or tablet. Allegion and CDVI are your most flexible and cost-effective products for your centrally managed complete access control solution.

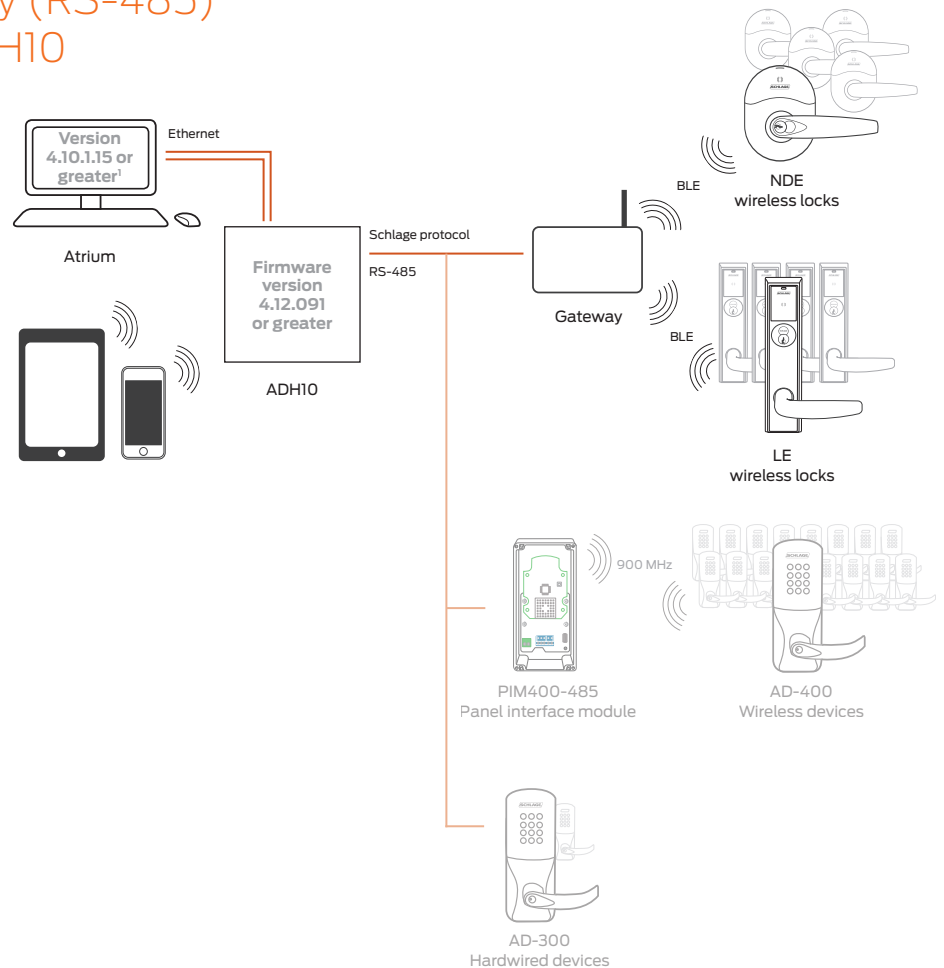
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with CDVI Atrium and ADH10

- ADH10 controllers have a single RS-485 port that support 10 ENGAGE gateways and 10 LE/NDE locks
- Up to 10 ENGAGE gateways and/or PIM400-485s, and/or AD-300 locks may be installed on the same port for a total of 10 LE/NDE and AD Series locks per ADH10 controller
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*
- Up to 50 ADH10 controllers are supported on one system for a total of 500 doors

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact CDVI: www.cdvi.ca or 1-866-610-0102

System capabilities:

	NDE/LE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	10
Maximum number of locks supported via network access	500
Maximum number of gateways per controller/Host	10
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	Yes
Update frequency	N/A
Schedules	250
Holiday	100
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button - LE only	Yes
Deadbolt - LE only	Yes
Lock functions	
Classroom/storeroom	Yes
Privacy - LE only	Yes
Office - LE only	Yes
Apartment - LE only	Yes
Licensing	
Please contact CDVI to determine licensing requirements	

Please contact CDVI for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

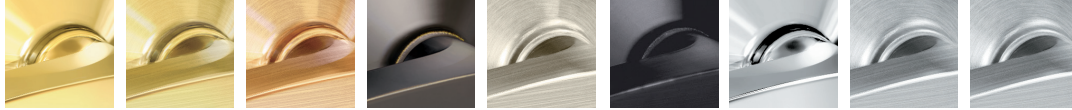
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011285, Rev. 12/17
www.allegion.com/us



VANDERBILT

Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Vanderbilt lite blue®



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with the Vanderbilt lite blue® web-based access control system to provide a cost effective and scalable access control solution to meet your security needs.

Vanderbilt's lite blue 2-8 door, web-based access control system is designed for ease of use, flexibility and expansion. Utilizing embedded intelligence, lite blue allows users to manage their system remotely with Internet access.

Vanderbilt is a global leader in creating state-of-the-art security products, encompassing access control, intruder detection, video and integrated security management systems. Our innovative approach to design aids us in creating solutions that make environments safe, secure and easy to maintain.

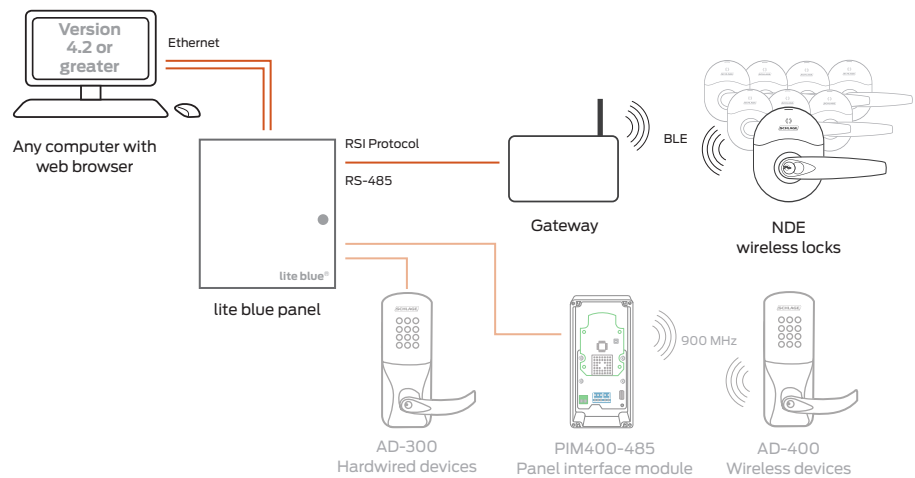
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with Vanderbilt lite blue and lite blue panel

- lite blue controller supports up to 8 NDE locks or AD locks combined
- lite blue controller supports a maximum of 8 gateways per RS-485 port
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Vanderbilt Industries: info@vanderbiltindustries.com or 855.316.3900

System capabilities:

NDE locks via Gateway (RS-485)

Features

Maximum number of locks supported by controller	8
Maximum number of locks supported via network access ¹	N/A
Maximum number of gateways per controller/Host	8
Maximum number of NDE locks per gateway	8
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	Yes
Update frequency	N/A
Schedules	Yes
Holidays	Yes

Credentials

Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	N/A

Lock functions

Classroom/storeroom	Yes
---------------------	-----

Licensing

Please contact Vanderbilt to determine licensing requirements

¹ Only applies to Direct Wi-Fi locks and IP Gateway architectures

Please contact Vanderbilt for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

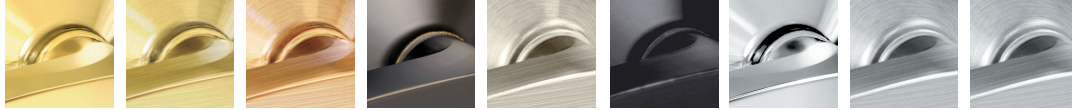
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011437, Rev. 12/17
www.allegion.com/us



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Johnson Controls® P2000

Johnson Controls



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with Johnson Controls® P2000 to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

The P2000 security management system from Johnson Controls is an innovative integration platform that's adaptable to small and large applications. Installed in thousands of facilities around the globe, it's helping to lower operational costs and create more comfortable, safer and sustainable business environments.

Johnson Controls P2000 also supports AD Series locks allowing you to combine both lock platforms into a single solution.

System Capabilities

Summary

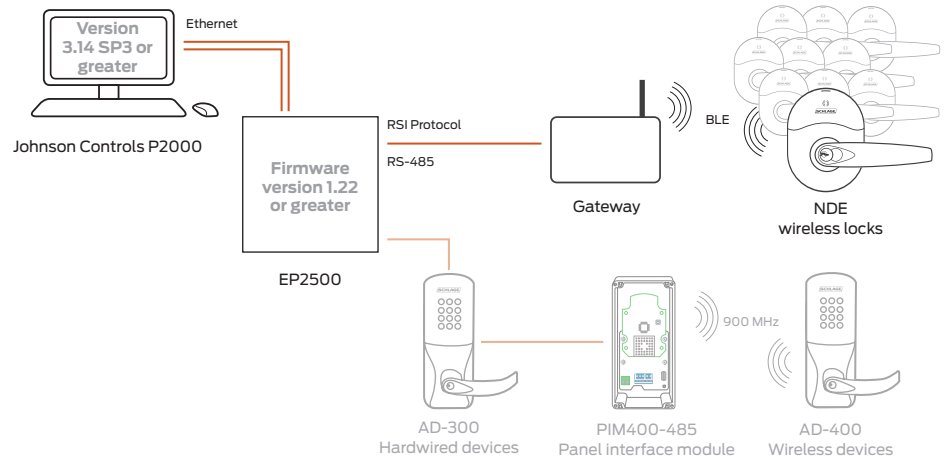
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via EP2500 and Gateway (RS-485) with Johnson Controls P2000

- EP2500 supports up to 64 NDE locks total
- EP2500 supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each EP2500
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. Note the Mercury SIO Controllers cannot be used on the same bus as the Schlage devices. See Johnson Controls AD Series solution sheet for additional details.



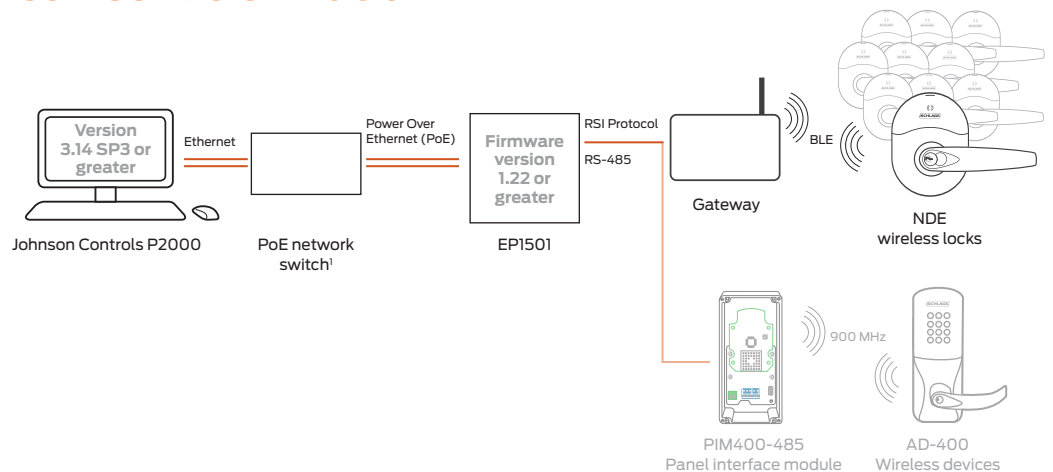
NDE locks via EP1501 and Gateway (RS-485) with Johnson Controls P2000

- EP1501 supports a maximum of 17 NDE locks via Gateway or 16 NDE locks and one additional Wiegand output on EP1501
- EP1501 supports a maximum of 8 gateways and PIM400-485 combined on its RS-485 port, and a maximum of 10 NDE locks per gateway and up to 16 AD locks per PIM400-485
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used.

NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. Note the Mercury SIO Controllers cannot be used on the same bus as the Schlage devices. See Johnson Controls AD Series solution sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE locks via Gateway (RS-485) with EP2500	NDE locks via Gateway/ (RS-485) with EP1501
Features		
Maximum number of locks supported by controller	64	17
Maximum number of locks supported via network access	N/A	N/A
Maximum number of gateways per controller/Host	16	8
Maximum number of NDE locks per gateway	10	10
Access control decision made by Host software or by lock database	Host	Host
Remote linking capability via Host ¹	No	No
Update frequency	N/A	N/A
Schedules	Yes	Yes
Holiday	Yes	Yes
Credentials		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	N/A	N/A
Request to enter	N/A	N/A
Low battery status	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	No lockdown, yes unlock	No lockdown, yes unlock
Interior push button	N/A	N/A
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing		
Please contact Johnson Controls to determine licensing requirements		

¹ Can link using Engage mobile app

² Similar functionality can be attained using Mercury triggers and procedures in P2000

Please contact
Johnson Controls for
additional details on
integrated features and
credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

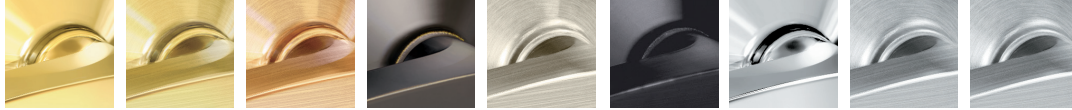
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™
Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011553, Rev. 12/17
www.allegion.com/us



Integrated security solution

with LE and NDE wireless locks featuring ENGAGE™ technology and Sielox Pinnacle system



Overview

Schlage® LE and NDE locks with ENGAGE™ technology seamlessly integrate with the Sielox Pinnacle system to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces using NDE on cylindrical door prep and LE for Mortise lock prepared doors.

The LE and NDE locksets send real-time card transactions through the ENGAGE Gateway to the Sielox 1700 controller. The transaction is then validated within the 1700 controller based on access level, time zone and holiday schedules, then the door lock releases allowing entry. The LE/NDE/Sielox integration also supports door position status reporting, emergency lock-down and even provides real-time battery status. The Sielox/LE/NDE solution allows the user to mix and match any combination of up to 32 Schlage LE/NDE, AD-400 and AD-300 locks through a single Sielox 1700 controller.

System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- NDE provides a cylindrical lock chassis and LE comes with a mortise lock chassis
- LE supports Optional Interior Push Button (IPB) on LEMB or deadbolt on LEMD for privacy mode
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)
- Sielox 1700 controller supports a maximum of 32 Schlage LE/ NDE Series locks

LE and NDE locks via Gateway (RS-485) with Sielox Pinnacle System and Sielox 1700 controller

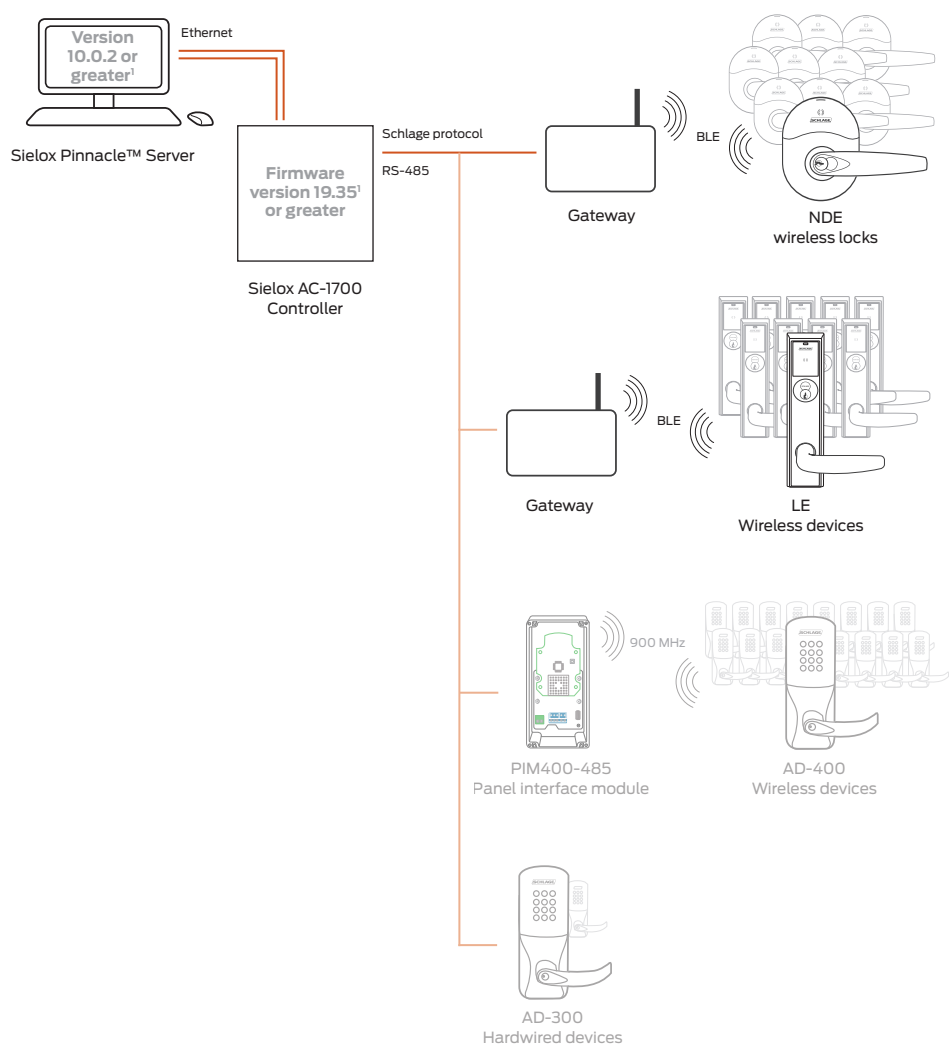
- Sielox 1700 controllers have a single RS-485 port that supports up to 16 ENGAGE Gateways and 32 LE/NDE Series locks
- Up to 16 ENGAGE Gateways and/or PIM400-485s, and/or AD-300 locks may be installed on the same port for a maximum total of 32 LE/NDE and AD Series locks per controller
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

1. Older versions of Sielox Pinnacle Software and Sielox 1700 Controller firmware will function but will support a different feature set.

Please contact Sielox for more information

2. Although not specifically addressed on this solution sheet Sielox Pinnacle server supports the AD-300 and AD-400 locks. Please consult the Sielox/AD Series solution sheet for details.



Note:

Please refer to LE, NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Sielox: 1.800.424.2126 or info@sielox.com

System capabilities:

	NDE locks via Gateway (RS-485)	LE Series via Gateway(RS-485)
Features		
Maximum number of locks supported by controller	32	32
Maximum number of locks supported via network access ¹	N/A	N/A
Real-time updates and event reporting	Yes	Yes
Maximum number of gateways per controller/Host	up to 16	up to 16
Maximum number of LE/NDE locks per gateway	10	10
Access control decision made by Host software or by lock database	Sielox 1700 Controller	Sielox 1700 Controller
Remote linking capability via Host	Yes	Yes
Remote unlinking capability via Host	Yes	Yes
Credentials¹		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	N/A	N/A
Request to enter	N/A	N/A
Low battery status	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)
Interior push button	N/A	Yes
Deadbolt position	N/A	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Privacy - LE only	N/A	Yes
Licensing		
Please contact Sielox to determine licensing requirements		

Note: Sielox supports Two Man Rule and Lock Toggle for the AD-300, AD-400, NDE, and LE

Please contact Sielox for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

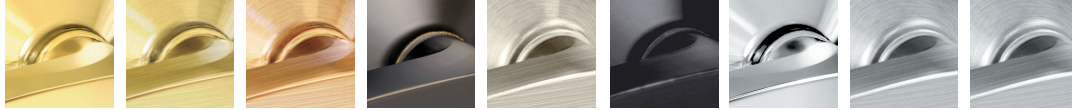
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011565, Rev. 12/17
www.allegion.com/us



Integrated security solution

Security Management System (SMS) enterprise with AD Series electronic locks

VANDERBILT



Overview

Are you looking for a high security access control solution that is both flexible and scalable? Vanderbilt Industries SMS Enterprise system paired with Schlage's AD Series electronic locks is the right solution for you.

SMS delivers a fully integrated access control solution including alarm monitoring, photo ID badging and video surveillance. It's perfect for large, multi-site or global organizations and provides you with an unparalleled level of flexibility by supporting an unlimited number of users, readers, credentials and other devices. We make it affordable by including multiple modules such as badging, visitor management and reporting in a single software package. Further accelerate your ROI by combining SMS with Schlage's AD Series electronic locks.

Schlage AD Series integrated locks combine all of the components typically found around the door, such as the reader, door position switch and the request to exit switch into one device which simplifies installation and saves money. Schlage AD Series integrated locks are available in hardwired and wireless configurations which can be outfitted with seven (7) credential reader options. Designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

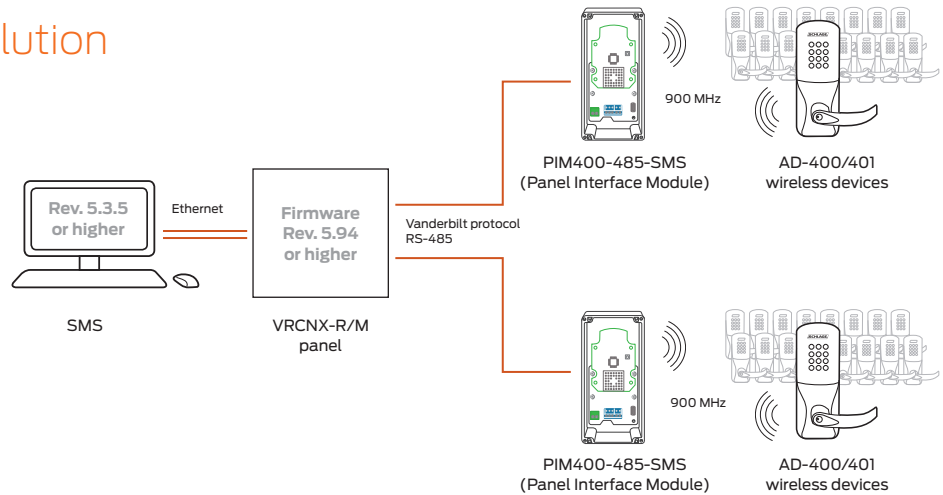
AD-301 and AD-401 are FIPS 201-1 compliant solutions available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS Compliant solutions by replacing the existing reader with new FMK reader.

System Capabilities Summary

- Security Management System
 - Fully integrated access control, video surveillance, alarm monitoring, visitor management and photo ID badging
 - Supports offline, AD-200 and online, AD-300 and AD-400 devices within the same environment
 - Manage multi-site facilities either centrally or individually
 - One and five client packages
- For AD-400 wireless applications:
 - Communicates to the controller (VSRC-M or VRCNX-R/M) via PIM400-485-SMS (RS-485); supports up to 16 devices per PIM400
 - 900 MHz communication between AD-400 and PIM400 for secure, encrypted transmission
 - Patent-pending wireless lockdown/unlock feature (10 seconds or less) preserves 2 year battery life
- For AD-300 hardwired applications:
 - Communicates to the controller (VSRC-M or VRCNX-R/M) via direct RS-485 connection; VSRC-M or VRCNX-R/M can support any combination of up to 16 AD-300 or AD-400 devices combined
- Additional details on readers supported and chassis types available on page 3 and 4
- AD Series: ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

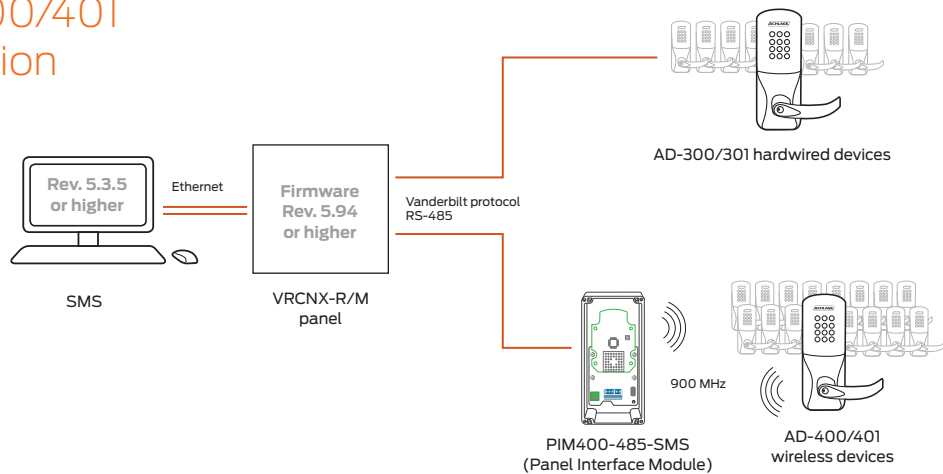
AD-400/401 RS-485 solution

- SMS Rev. 5.3.5 or higher; For IPB functionality, Rev 5.3.9 or higher
- VRCNX-R/M panel firmware 5.94 or higher; For IPB functionality, firmware 6.30 or higher
- 2 available RS-485 channels on each SMS VRCNX-R/M controller for AD locks
- VSRC-M supports up to 16 AD-400/401 total per VSRC-M Panel
- Wireless range up to 200' in building construction. Up to 1000' line of sight



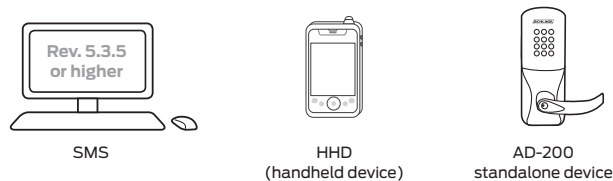
AD-300/301 and AD-400/401 combined RS-485 solution

- SMS Rev. 5.3.5 or higher; For IPB functionality, Rev 5.3.9 or higher
- VRCNX-R/M panel firmware 5.94 or higher; For IPB functionality, firmware 6.30 or higher
- 2 available RS-485 channels on each SMS VRCNX-R/M controller for AD locks
- VSRC-M supports up to 16 AD-300/301 or 16 AD-400/401 total combined



AD-200 standalone solution

- Manage access rights, time zones and holidays with SMS Enterprise software.
- Utilize HHD handheld device to configure locks and transfer updates and audits between software and locks.



Note:

Although not specifically shown, both AD-300/301s and AD-400/401s can be managed on a common RS-485 channel.

Please refer to AD-200, AD-300, AD-301, AD-400, AD-401, PIM400-485, WPR400, WRI400 data sheets for complete AD Series specifications

SMS Enterprise system capabilities:

	AD-400/401 PIM400-485	AD-300/301 Direct RS-485	AD-200 Standalone
Features			
Maximum number of readers supported by controller/PIM	16/16	16	N/A
Maximum number of readers per PIM400	16	N/A	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 Port	Up to 8	8	N/A
Access control decision made by host or by lock database	Host	Host	Lock
Remote Linking capability via Host	No	N/A	N/A
Readers - see supported card formats below			
Keypad only	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 khz proximity and 13.56 MHz smart card	Yes (smart card up to 32 bits)	Yes (smart card up to 32 bits)	Yes (smart card up to 32 bits)
PIV & PIV-I card compatible ¹	Yes	Yes	Yes
Card + PIN	Up to 4 digit PIN	Up to 4 digit PIN	3 to 6 digit PIN
Status monitors			
Request to exit	Yes	Yes	N/A
Door position	Yes	Yes	N/A
Mechanical key override	Yes ²	Yes ²	Yes
Request to enter	No	Yes	N/A
Low battery status	Yes	N/A	Yes
Communication status: RF/RS485	Yes /Yes	Yes/Yes	N/A
Remote lockdown/unlock ³	Yes (<10 sec) ²	Yes	N/A
Deadbolt position	Yes	Yes	Yes
Interior push button	Yes (version 5.3.9)	Yes (version 5.3.9)	Yes
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Office/toggle	Yes	Yes	Yes
Privacy	Yes	Yes	Yes
Apartment	Yes	Yes	Yes
Licensing	Please contact Vanderbilt Industries to determine licensing requirements.		

Please contact Vanderbilt Industries for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Vanderbilt to confirm they are able to support your FIPS 201-1 credential format.

² Enhanced features that are only available in SMS v5.3.5 or higher

³ For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

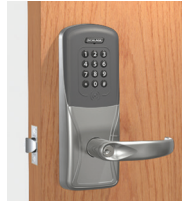
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-200/300/400)



Cylindrical Lock (AD-200/300/400)



Exit Device Trim (AD-200/300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



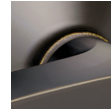
605
Bright brass



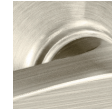
606
Satin brass



612
Satin bronze



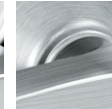
643e
Aged bronze



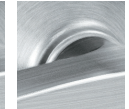
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005104, Rev. 09/17
www.allegion.com/us



Integrated security solution

Heartland with wireless AD-400 electronic locks

Heartland



Overview

Keep your campus safer and improve the efficiency of your safety department with Heartland OneCard Access and Security System. Only students, faculty, staff, and registered guests will have access to buildings, residence halls, classrooms, labs, and other secure areas using their OneCard, smartphone, or mobile device. By integrating the OneCard system with the Schlage AD series locks, you can improve safety for your students, faculty, staff, and facilities. The Heartland OneCard Access system uses cutting edge technology that integrates BLE beacons for use with mobile access. This package also integrates with our Heartland OneCard Security Monitor that allows you to have real-time control over door alarms. Together with the NDE locks, this is a complete solution for your campus or business.

The AD Series electronic locking platform is designed to be open and flexible. With its open architecture, the AD-Series can be seamlessly integrated into the Heartland access control system .

Schlage AD Series electronic locks combine the components typically found around the door; such as the reader, door position switch and the request-to-exit switch into one device; which simplifies installation and saves money.

The AD-Series is available in wireless configurations to suit the requirements of the facility. AD-Series wireless locks provide many of the key benefits of a hardwired system including realtime monitoring, audit trails, centralized lockdown and instant access control management. For existing facilities, the AD-400 wireless locks provide real time access control with Net Manager without having to run wires direct to each opening to help you extend the reach of your access control system.

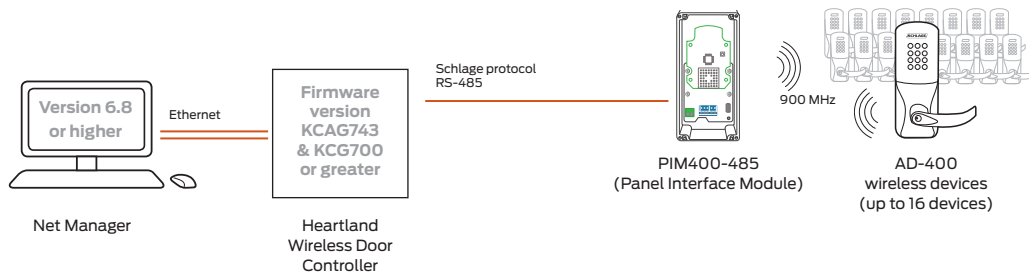
The AD-Series can be customized with different credential reader options, the multi-technology which can read both proximity and smart credentials being used with Net Manager today. Designed to be modular, readers can easily be upgraded in the future to meet your changing credential needs.

System Capabilities Summary

- AD-400 wireless applications:
 - Heartland Door Controller supports up to 8 PIM400-485s
 - Maximum of 32 AD-400 locks per MD-4 controller
 - 900 MHz communication between AD-400 and PIM400 for secure, AES-128 bit encrypted transmission
 - Patent-pending wireless lockdown feature (10 seconds or less) via PIM400 preserves up to 2 year battery life
- AD Series available with seven reader options and the chassis options shown on page 4
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 wireless with RS-485 Solution

- Heartland Wireless Door Controller supports up to 32 AD locks total
- Heartland Wireless Door Controller supports a maximum of 8 PIM400-485, on a single RS-485 port
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



Note:

Please refer to AD-400, PIM400-485, and WPR400 data sheets for complete AD Series specifications

For additional information contact Heartland at 1.800.437.6931

System capabilities:

	AD-400 PIM400-485
Features	
Maximum number of readers supported by controller/PIM	32
Maximum number of readers per PIM400	16
Maximum number of PIM400s per RS-485 port	8
Access control decision made by host or by lock database	Host
Remote linking capability via Host	Yes with KCG700 firmware ONLY
Readers - see supported card formats below	
Keypad only	Yes
Magnetic stripe card	Yes
Multi-technology - 125 khz proximity and 13.56 MHz smart card	Yes
PIV & PIV-I card compatible	No
Card + PIN	Yes
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	No
Request to enter	No
Low battery status	Yes
Communication status: RF/RS-485	Yes
Remote lockdown/unlock	Yes
Deadbolt position	No
Interior push button	No
Lock functions	
Classroom/storeroom	Yes
Licensing	Please contact Heartland to determine licensing requirements

Please contact Heartland for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CAS1®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

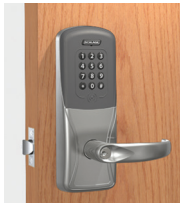
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400)



Cylindrical Lock (AD-400)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



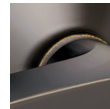
605
Bright brass



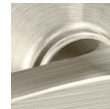
606
Satin brass



612
Satin bronze



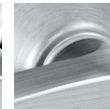
643e
Aged bronze



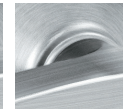
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011178, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400/401 wireless and AD-300/301 hardwired devices and PremiSys™

IDenticard®
ACCESS CONTROL



Overview

Schlage AD Series locks seamlessly integrate with PremiSys™ by IDenticard to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

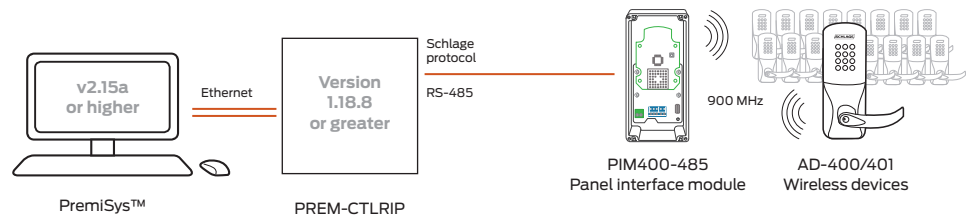
AD-401 and AD-301 FIPS 201-1 compliant solutions are available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS compliant solutions by replacing existing reader with new FMK reader. Please contact IDenticard to confirm they will be able to support your FIPS 201 credential format.

System Capabilities Summary

- AD-300 /301 hardwired:
 - Field configurable fail safe/fail secure
- AD-400/401 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real-time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400 10 seconds or less (preserves up to 2 years battery life)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400/401 via RS-485 with PremiSys™ and the IP Controller (PREM-CTRLIP)

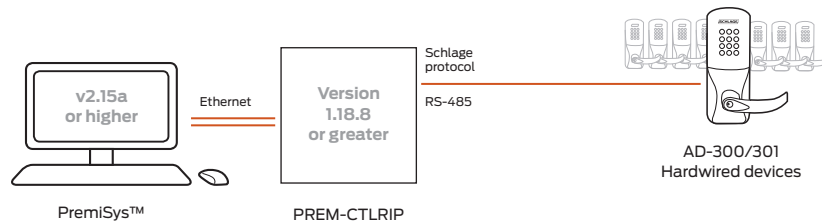
- The IP Controller supports up to 64 doors across 2 RS-485 lines
 - It supports a maximum of 16 AD-400 wireless locks connected via PIM400-485
 - The 2nd communications port supports up to an additional 48 doors on Mercury Hardware (not shown here)
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port

AD-300/301 via RS-485 with PremiSys™ and the IP Controller (PREM-CTRLIP)

- The IP Controller supports a maximum of 16 AD Series locks across up to 2 RS-485 ports.
- The 2nd communications port supports up to an additional 48 doors on Mercury Hardware (not shown)



NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port

Note:

Please refer to AD-400, AD-401, AD-300, AD-301, PIB300-2D, PIM400-485, PIM400-TD2, and RLBD data sheets for complete AD Series specifications.

For additional information contact IDenticard Systems: 855-367-4721 or www.identicard.com

System capabilities:

	AD-400/401 PIM400-485	AD-400/401 PIM400-TD2	AD-300/301 Direct RS-485
Features			
Maximum Number of readers supported by controller	64	64	16
Maximum Number of readers per PIM400	16	2	N/A
Maximum Number of PIM400s and/or AD-300s per RS-485 port	Up to 8	Up to 8	Up to 8
Access control decision made by host software or by lock database	Host	Host	Host
Remote Linking capability via Host	No	No	N/A
Readers - see supported card formats below			
Keypad only	Yes	Yes	Yes (up to 15 digits)
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes (+)
Card + PIN	Yes	Yes	Yes (up to 15 digits)
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	No	No	No
Request to enter	No	No	No
Low battery status	Yes	Yes	N/A
Communication status: RF/RS485	Yes / Yes	Yes / Yes	Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes ^{2,3}	Yes
Deadbolt position	No	No	No
Interior push button	No	No	No
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Licensing			
Please contact IDenticard to determine licensing requirements.			

Please contact IDenticard Systems for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact IDenticard to confirm they are able to support your FIPS 201-1 credential format.

2 For greater than 1 device will be <20 sec

3 ** Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

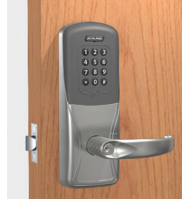
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suit with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



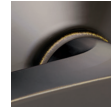
605 Bright brass



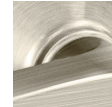
606 Satin brass



612 Satin bronze



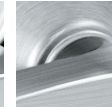
643e Aged bronze



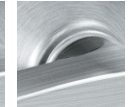
619 Satin nickel



625 Bright chrome



626 Satin chrome



626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005628, Rev. 09/17
www.allegion.com/us



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and ezDOOR™

ezDOOR



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with ezDOOR™ to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

ezDOOR is a sophisticated access control software that integrates with the Engage NDE lockset. ezDOOR converts an unlimited number of the Stand Alone locks to an online Enterprise Networked Access Control system via WiFi lock. ezDOOR communicates directly over WiFi to the lockset requiring no additional hardware. Cloud based or Server based Software features allows the End User to manage and administer one or multiple site locations. Web based Software is accessible remotely from anywhere in the world via secure encrypted internet.

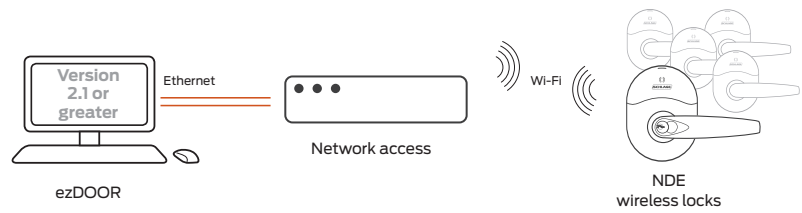
System Capabilities

Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

Advanced offline solutions

- ezDOOR supports an unlimited number of NDE locks



Note:

Please refer to NDE lock data sheet for complete specifications.

For additional information contact ezDOOR: www.ezdoor.us

System capabilities:

	Advanced offline solutions
Features	
Maximum number of locks supported by controller	N/A
Maximum number of locks supported via network access	Unlimited
Maximum number of gateways per controller/Host	N/A
Maximum number of NDE locks per gateway	N/A
Access control decision made by Host software or by lock database	Lock
Remote linking capability via Host	N/A
Update frequency	N/A
Schedules	Yes
Holiday	Yes
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	N/A
Remote lockdown/unlock	No
Interior push button	N/A
Mortise deadbolt status	N/A
Lock functions	
Classroom/storeroom	Yes
Licensing	
Please contact ezDOOR to determine licensing requirements	

Please contact ezDOOR for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

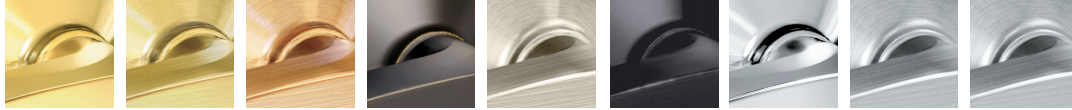
Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes

Standard cylinders shown, SFIC and FSIC also available.



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011460, Rev. 12/17
www.allegion.com/us



SCHLAGE

AD Series

Electronic locks

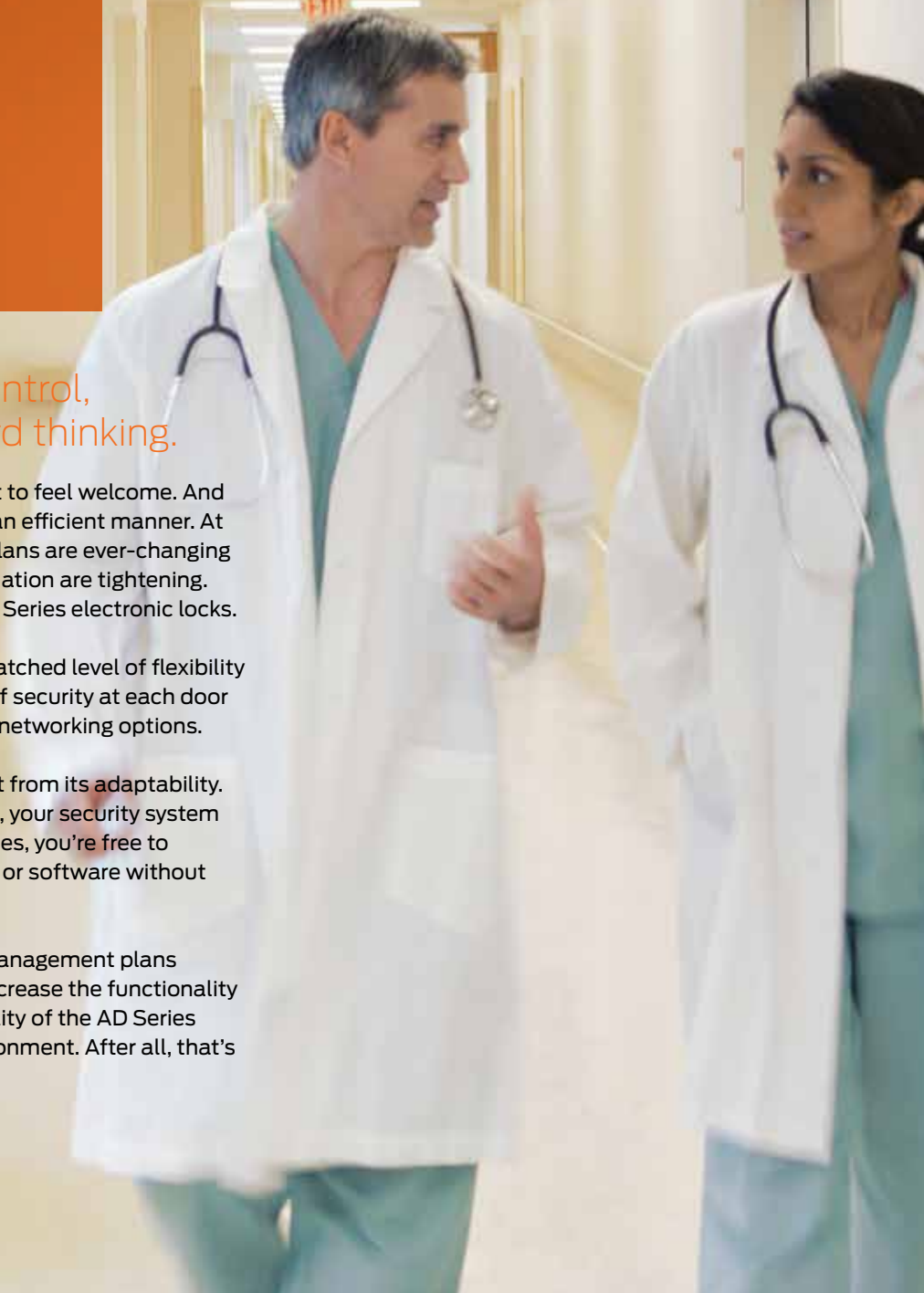
A healthy balance of control,
accessibility and forward thinking.

Patients want to feel safe. Visitors want to feel welcome. And staff members want to do their jobs in an efficient manner. At the same time, security management plans are ever-changing and regulations around sensitive information are tightening. That's why we created the Schlage® AD Series electronic locks.

AD Series electronic locks offer an unmatched level of flexibility that allows you to customize the level of security at each door with a large selection of credential and networking options.

By choosing the AD Series, you'll benefit from its adaptability. When your plans and processes change, your security system can change with them. With the AD Series, you're free to change credentials, networking options or software without replacing the entire lock.

As your facility grows or your security management plans mature, it's easy to add more locks or increase the functionality of those currently installed. The scalability of the AD Series allows it to evolve along with your environment. After all, that's what real security is all about.





Healthcare environments are ever-changing. The AD Series is designed to change with you.

When you're confident that your facility and assets are safe — whether it's a large hospital or small doctor's office — you're free to focus on other projects that create a productive environment for patients and staff.

The AD Series allows you to:

- Adapt to evolving security management plans and processes.
- Control installation disruption by using the wireless networking option.
- Control and audit access to security sensitive information, assets and departments.
- Lockdown the facility according to an emergency management plan.
- Customize levels of access for different types of openings.
- Establish a credential strategy.
- Benefit through long-term cost of ownership savings.
- Know your solution meets ANSI/BHMA A 156.25, ANSI/BHMA Grade 1, is UL294 listed and ADA compliant.

Flexible

- A large selection of credential and networking options.
- Multiple reader choices give you the option to mix and match credentials as needed.
- Dual credential readers (card + pin) available for identity verification — it's not only what you have (credential), but also what you know (PIN).
- Available in offline and wireless or hardwired networked solutions.
- Compatible with most master key systems and major brands of exit devices including Von Duprin® and Falcon®.

Adaptable

- Provides a platform for future upgrades while seamlessly integrating with your existing credentials through an open architecture design.
- Modular design gives you the option to change credential readers or network options as needs change — all without taking the lock off of the door.

Scalable

- Offline and networked solutions for different openings in your facility - and a single software to support both.
- Gives you the ability to migrate to new credential strategies and upgrade your networking choice.
- The ability to add locks to your system as you grow.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and Keep by Feenics™



Overview

The Schlage NDE or LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

Schlage NDE/LE locks with ENGAGE technology seamlessly integrate with Keep by Feenics to provide a cost effective and scalable access control solution to meet your security needs. This integration allows customers to leverage both the security and convenience of the Schlage wireless locks while harnessing the power of an open, cloud based security platform. Keep by Feenics is a true cloud based access control and ID management platform based on industry standard hardware. Keep by Feenics is the only product to offer customers a choice of a hosted in Amazon Web Services (AWS) or traditional on premise (private cloud) deployment methodologies.

Keep by Feenics also supports AD Series locks allowing you to combine both lock platforms into a single solution.

System Capabilities Summary

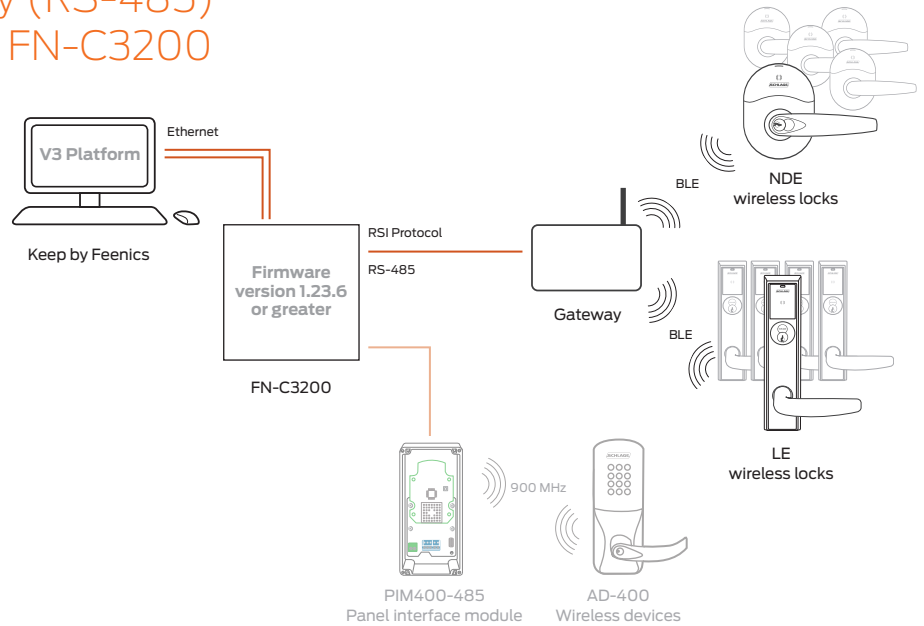
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with Keep by Feenics and FN-C3200

- FN-C3200 supports up to 64 NDE or LE or AD-400 locks total
- FN-C3200 supports a maximum of 8 gateways or PIM400-485 per RS-485 port
- There are 2 ports on each FN-C3200
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

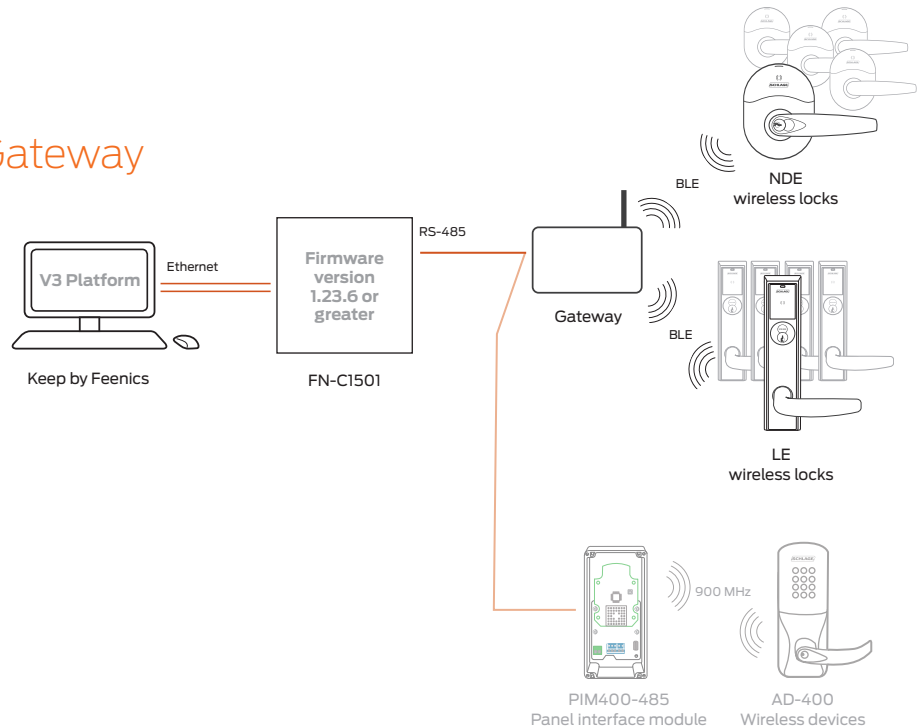
NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Feenics AD Series solution sheet for additional details.



NDE/LE locks via C1501/Gateway

- FN-C1501 supports up to 16 NDE/LE and or AD-400 locks combined
- The FN-C1501 supports a maximum of 8 gateways or PIM400-485

NOTE: Both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Feenics AD Series solution sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE/LE locks via Gateway (RS-485 via C3200)	NDE/LE locks via C1501/Gateway
Features		
Maximum number of locks supported by controller	64	16
Maximum number of locks supported via network access	N/A	N/A
Maximum number of gateways per controller/Host	16	8
Maximum number of NDE/LE locks per gateway	10	10
Access control decision made by Host software or by lock database	Mercury controller	Mercury controller
Remote linking capability via Host	Both	Both
Update frequency	N/A	N/A
Schedules	Yes	Yes
Holiday	Yes	Yes
Credentials		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	N/A	N/A
Request to enter	N/A	N/A
Low battery status	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)
Interior push button - LE only	Yes	Yes
Mortise Deadbolt - LE only	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Office - LE only	Yes	Yes
Privacy - LE only	Yes	Yes
Apartment - LE only	Yes	Yes
Licensing		
Please contact Feenics to determine licensing requirements		

Please contact Feenics for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

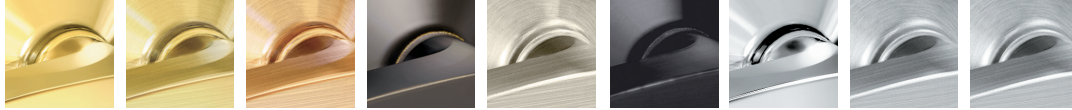
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011284, Rev. 12/17
www.allegion.com/us



AD Series

Electronic locks

Protect your campus — and your investment.

Your goal is to create a safe and secure environment for learning — one in which students succeed, professors excel, and parents and the community can place their trust. That's why we created the AD Series electronic locks. With an innovative design they're sure to fit your needs today, protect your investment in the future and provide the same level of security you've always expected from Schlage® products.

AD Series electronic locks are flexible and allow each opening to be customized. Which is perfect for a campus environment with a number of different applications to address. The AD Series is a solution that's right for today's needs, and adapts to whatever the future holds. Its open architecture platform allows you to leverage your current 'one-card' solution. And you're free to upgrade credential readers and networking modules without taking the lock off the door.

The scalability of the AD Series allows it to evolve along with your campus. Start with just a few offline doors. When you're ready, add more openings and put the whole system on a network — giving you the ability to lock down the campus in seconds. After all, that's what real security is all about.





AD Series electronic locks are _____.

a) Flexible b) Adaptable c) Scalable **d) All of the above**

College campuses face security challenges that are truly unique. Not only do you need to protect students, staff and visitors, but you need to do it in an ever-changing environment that is active all day, every day. That's precisely why an investment in the AD Series electronic locks from Schlage is a smart one. From day one, the AD Series provides a custom fit for your needs and then can adapt as your needs change.

The AD Series allows you to:

- Initialize centralized lockdown in wireless and hardwired networked applications.
- Provide varying levels of security to perimeter openings, classrooms and residence halls.
- Adapt to evolving security management plans.
- Control and audit access to security sensitive buildings and rooms.
- Install access control in historical or difficult to wire buildings using the wireless networking option.
- Monitor lock status, including battery life.
- Provide a higher level of security in residence halls and sensitive locations by installing mortise deadbolts.
- Know your solution meets ANSI/BHMA A156.25 Grade 1 requirements and is UL Listed.

Flexible

- A large selection of credential and networking options.
- Multiple reader choices give you the option to mix and match credentials as needed.
- Dual credential readers (card + PIN) available for identity verification – it's not only what you have (credential), but also what you know (PIN).
- Available in offline and wireless or hardwired networked solutions.
- Compatible with most master key systems and major brands of exit devices including Von Duprin® and Falcon®.

Adaptable

- Provides a platform for future upgrades while seamlessly integrating with your existing one-card and access control solutions through its open architecture platform.
- Modular design gives you the option to change credential readers or network options as needs change – all without taking the lock off of the door.

Scalable

- Offline and networked solutions for different openings in your facility - and a single software to support both.
- Gives you the ability to migrate to new credential strategies and upgrade your networking choice.
- The ability to add locks to your system as you grow.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises more than 25 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
006142, Rev. 12/14
www.allegion.com/us



AD Series

Access control system alliances

The AD Series offers standard features that are available in most systems, as well as a unique set of capabilities that may be enabled by the access control provider when connected via RS-485. It's important to note that a growing number of access control providers support RS-485 connectivity with the AD Series, providing enhanced features and a lower system architecture cost.

AD Series connection to access control system

	AD-300 Hardwired locks	AD-400 Wireless locks and devices including the WRI400 & WPR400
RS-485	Direct connection and communication to the Access Control Panel (ACP).	Connects to ACP via PIM400-485 which can support up to 16 AD-400 locks and wireless devices.
Wiegand or clock & data	Connects to ACP via PIB300-2D which can support up to 2 AD-300 devices.	Connects to ACP via PIM400-TD2 which can support up to 2 AD-400 locks and wireless devices.

The AD Series lock was designed on an open architecture platform that enables easy integration into virtually any system via Wiegand, Clock and Data or RS-485.

AD Series integrated RS-485 partners

 COMING SOON	 The Credential Ecosystem	
		
		
		
 COMING SOON		
Johnson Controls		 A Member of the Kaba Group
	 COMING SOON	
 COMING SOON		
		
		
SOFTWARE HOUSE		 COMING SOON
		

AD Series Wiegand partners

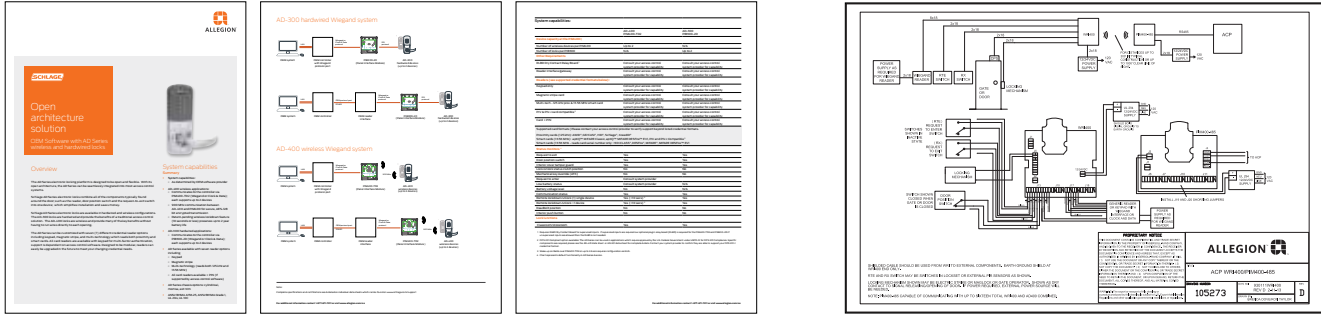
Connects via Wiegand to virtually any access control system

		 COMING SOON
		

Customized support documentation

No two access control systems are alike, so we have created customized support documentation that includes:

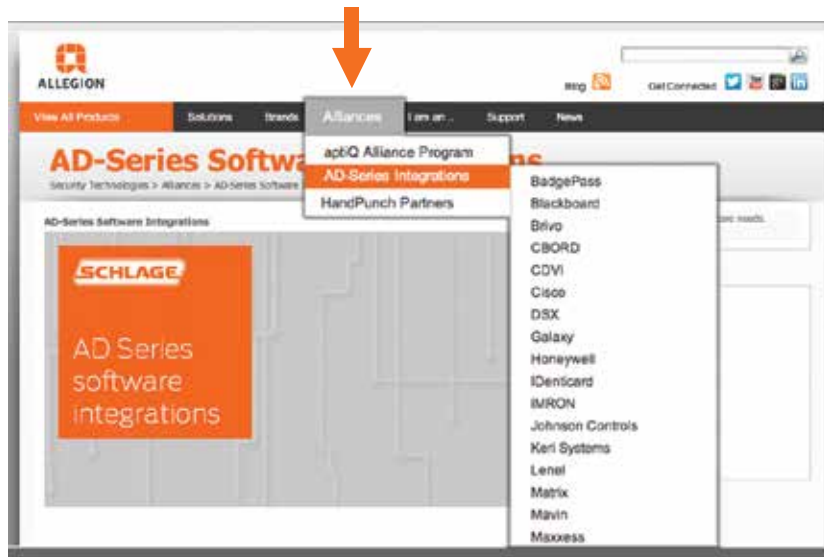
- Solution sheets
- Quick start guides
- Wiring diagrams
- A&E specifications
- And more



Easy to find on the web or mobile app

Our web site is also a valuable resource for a complete list of providers that support RS-485 integration with the AD Series. All of our current alliance partners have a web page where the most current documentation can be found in one place. To access support documentation visit our website at:

<http://us.allegion.com/irst/alliances/adseries/Pages/default.aspx>



Mobile App

Download the Schlage Electronics How-To app from iTunes or the Android Market for easy access.



About Allegion™

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit allegion.com



VANDERBILT

Integrated security solution

lite blue® and AD Series electronic locks



Overview

Vanderbilt Industries is a global leader in creating state-of-the-art security systems. We innovate access control technology by designing, manufacturing and distributing systems that make environments safe, secure and easy to maintain. Vanderbilt's products range from single-user systems so simple that they can be installed in one day to highly customized applications that fit the unique requirements of leading multi-national corporations. Our product line includes the **lite blue®**, **bright blue®** and SMS access control systems, as well as enterprise video solutions.

Installation of the hardware is simplified since Schlage AD Series integrated locks combine all of the components typically found around the door, such as the credential reader door position switch and the request-to-exit switch. Designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

By electronically scheduling lock and unlock times you will improve security and productivity. By issuing electronic credentials, like aptiQ™ smart cards, you not only know who gained access where and when but you reduce the costs associated with re-keying. When you invest in electronic access control within your facility you increase security, add convenience and save money over time.

AD-301 and AD-401 FIPS 201-1 compliant solutions available using FMK readers. Existing AD-300 and AD-400 locks can be upgraded to FIPS compliant solutions by replacing existing reader with new FMK reader. Please contact Vanderbilt to confirm they will be able to support your FIPS 201 credential format.

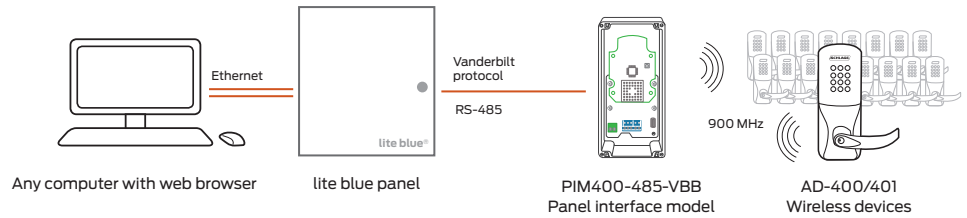
System Capabilities Summary

- **lite blue** supports up to 8 doors and up to 5,000 users
 - Convenient web-based application
 - Remote access and administration
 - No software to install and no dedicated PC required
 - Holiday and event scheduling
 - Facility lockdown via credential or external push-button
 - Event notification via email and text
 - Degraded mode
 - Video management options
- For AD-400 wireless applications:
 - Communicates to the **lite blue** controller via PIM400-485-VBB (RS-485); each PIM supports up to 8 devices on lite blue (note the lite blue controller supports a maximum of 8 devices)
 - 900 MHz communication between AD-400 and PIM400 for secure, encrypted transmission
 - Patent-Pending Wireless Lockdown feature (10 seconds or less) preserves 2 year battery life
- For AD-300 hardwired applications:
 - Directly communicates via RS-485 connection to the **lite blue** panel
- Additional details on readers supported and chassis types available on page 3 and 4
- Supports classroom/storeroom function , Office/Toggle, Privacy and Apartment Functions
 - Office function supported with RS-485 connection only
- AD Series: ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400/401 via RS-485 with lite blue®

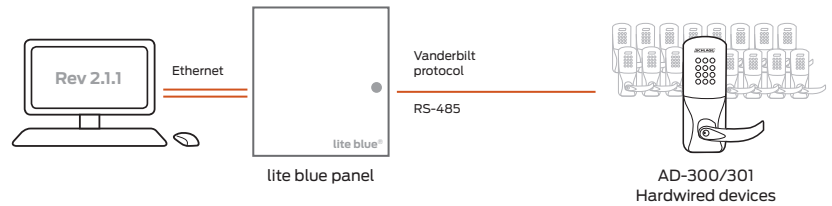
- **lite blue** controller supports up to 8 RS-485 devices (AD-300/301 and AD-400/401 combined)
- **lite blue** controller supports a maximum of 8 PIM400-485-VBB per RS-485 port
- Wireless range up to 200' in typical building construction, up to 1000' line of sight

Note: Although not specifically shown, both AD-300/301s and AD-400/401s can be managed on a common RS-485 port.



AD-300/301 via RS-485 with lite blue®

- **lite blue** controller supports up to 8 RS-485 devices (AD-300/301 and AD-400/401 combined)



Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-485, WPR400, WRI400 data sheets for complete AD Series specifications.

System capabilities:

	AD-400/401 PIM400-485-VBB	AD-300/301 Direct RS-485
Features		
Maximum number of readers supported by controller/PIM	8	8
Maximum number of readers per PIM400	8	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 Port	Up to 8	Up to 8
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes (up to 32 bits smart card)	Yes (up to 32 bits smart card)
PIV & PIV-I card compatible ¹	No	Yes
Card + PIN	Yes (up to 4 digit PIN)	Yes (up to 4 digit PIN)
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	Yes	No
Low battery status	Yes	N/A
Communication status: RF/RS-485	Yes/Yes	Yes
Remote lockdown/unlock	Yes (<10 sec)	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Office/toggle	Yes	Yes
Privacy	Yes	Yes
Apartment	Yes	Yes
Licensing	Please contact Vanderbilt Industries to determine licensing requirements.	

Please contact Vanderbilt Industries for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS 201 compliant option available requires FMK reader: the ad-series can be used in applications which require approval by the US Federal government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 and AD-301 data sheets for complete details. Contact Vanderbilt to confirm they are able to support your FIPS 201 credential format.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

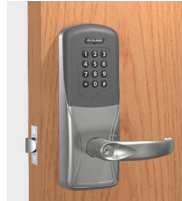
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400)



Cylindrical Lock (AD-300/400)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



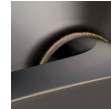
605 Bright brass



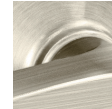
606 Satin brass



612 Satin bronze



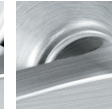
643e Aged bronze



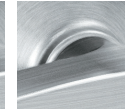
619 Satin nickel



625 Bright chrome



626 Satin chrome



626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
010760, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-300/301 hardwired,
AD-400/401 wireless devices and
C·CURE 800/8000

SOFTWARE HOUSE



Overview

Schlage AD Series locks seamlessly integrate with C·CURE 800/8000 to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

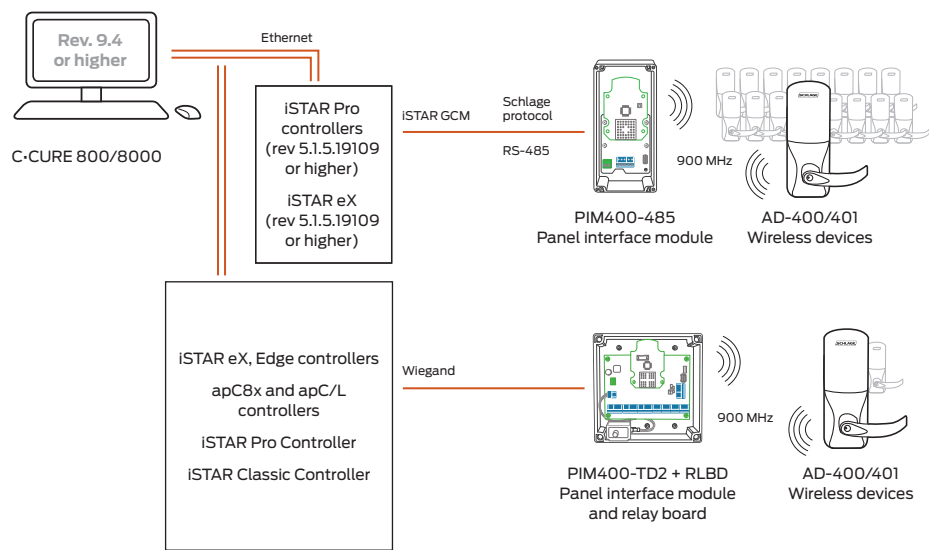
AD-301 and AD-401 FIPS 201-1 Compliant solutions available using FMK reader. Please contact Software House to confirm they are able to support your FIPS 201 credential format.

System Capabilities Summary

- AD-400/401 wireless:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Patent pending wireless lockdown /unlock feature via PIM400-TD2 10 seconds or less (preserves up to 2 year battery life)
 - Powered by four (4) standard off-the-shelf AA batteries
- AD-300/301 hardwired:
 - Field configurable fail safe/fail secure
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

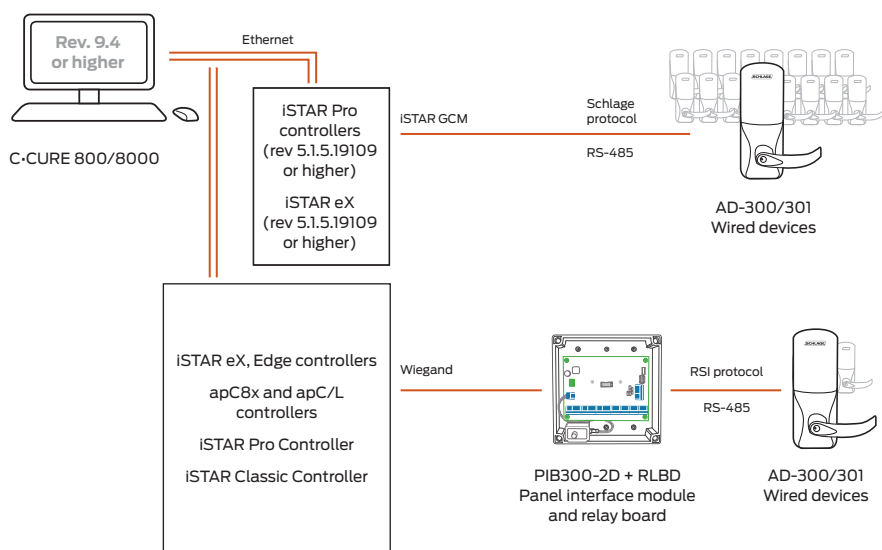
AD-400/401 via RS-485 and/or Wiegand with C · CURE 800/8000 and iSTAR Controllers

- iSTAR Controllers support up to 16 readers
 - Each connected PIM400-485 can support up to 16 AD-400/401 wireless devices
 - Each connected PIM400-TD2 can support up to 2 AD-400/401 wireless devices
- Up to (16) AD-400/401s and/or AD-300/301s can be managed collectively on a single controller.
- Wireless range up to 200' in typical building construction, up to 1000' clear line of sight



AD-300/301 via RS-485 and/or Wiegand with C · CURE 800/8000 and iSTAR Controllers

- iSTAR Pro and eX Controllers support up to 16 readers
 - When connected directly can support up to 16 AD-300/301 wired devices; daisy chained
 - Each connected PIB300-2D can support up to 2 AD-300/301 wired devices



Note:

Please refer to AD-300, AD-301, PIB300-2D, AD-400, AD-401, PIM400-485, PIM400-TD2, and Relay Board RLBD data sheets for complete AD Series specifications.

System capabilities:

	AD-400/401 PIM400-485	AD-400/401 PIM400-TD2 + RLBD	AD-300/301 Direct RS485	AD-300/301 PIB300-2D + RLBD
Features				
Maximum number of readers supported by controller/PIM/PIB	16	16	16	16
Maximum number of readers per PIM400/PIB300	16	2	N/A	2
Maximum number of PIM400s and/or AD-300s per RS-485 port	up to 16	n/A	Up to 16	N/A
Access control decision made by host or by lock database	Host	Host	Host	Host
Remote Linking capability via Host	No	No	N/A	N/A
Readers - see supported card formats below				
Keypad only	No	No	No	No
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes (smart cards up to 32 bits)	Yes (smart cards up to 32 bits)	Yes (smart cards up to 32 bits)	Yes (smart cards up to 32 bits)
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes
Card + PIN	No	Yes	No	Yes
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	No	No	No	No
Request to enter	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes	Yes
Remote lockdown/unlock ²	Yes (per Heartbeat) ³	Yes (<10 sec) ^{2,4}	Yes	Yes
Deadbolt position	No	No	No	No
Interior push button	Yes	Yes	Yes	Yes
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes
Licensing Please contact Software House to determine licensing requirements.				

Please contact Software House for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 75 bit format output default. Configurable to other output formats..

2 For greater than 1 device will be <20 sec .

3 Device will respond to host based upon heartbeat; default is 10 minutes.

4 Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD.

5 FIPS 201 Compliant Option Available: The AD-Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201 Compliance. Specific components are required, please see the AD-401 data sheet or AD-301 data sheet for complete details. Contact Software House to confirm they are able to support your FIPS 201-I credential format.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)



Magnetic stripe (swipe)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

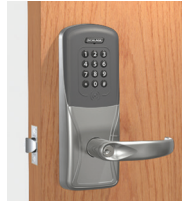
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock
(AD-300/301-MS)
(AD-400/401-MS)



Cylindrical Lock
(AD-300/301-CY)
(AD-400/401-CY)



Exit Device Trim
(AD-300/301/400/401-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



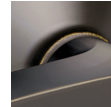
605
Bright brass



606
Satin brass

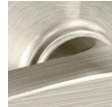


612
Satin bronze



643e
Aged bronze

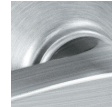
Cool tone finishes



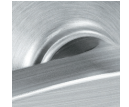
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005081, Rev. 09/17
www.allegion.com/us

Military barracks and BEQ doors

Government solutions

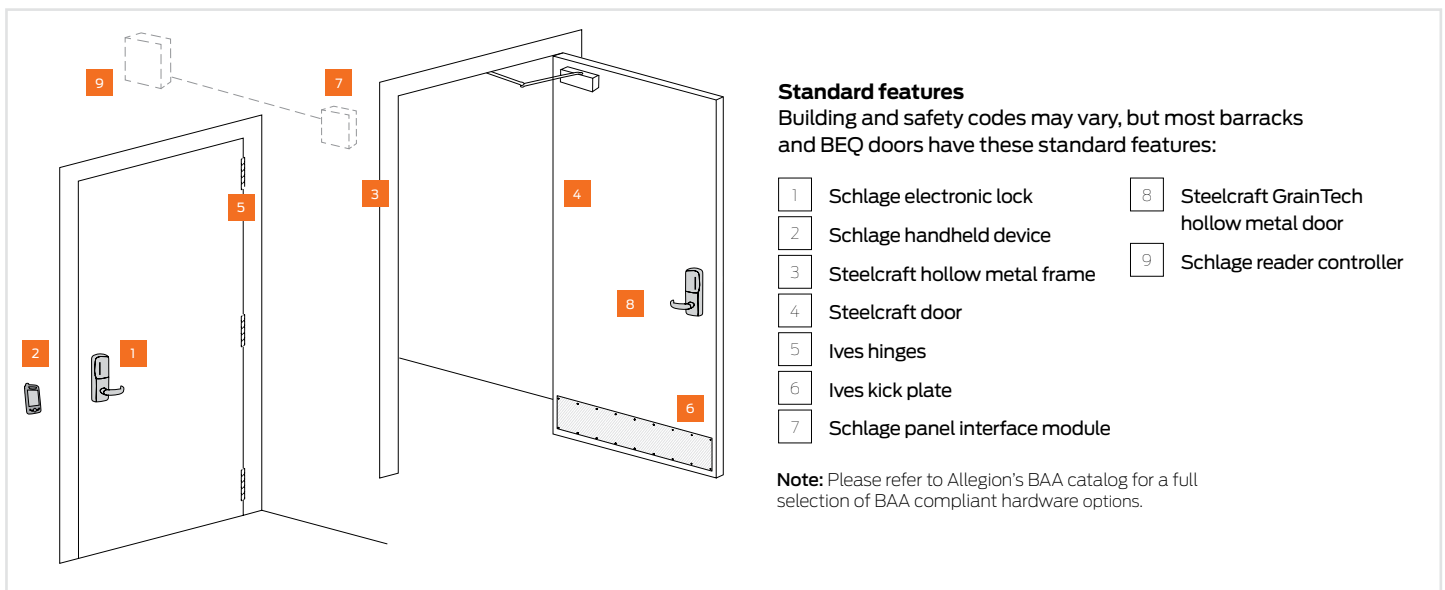
Barracks require access around the clock by authorized residents, with non-residents restricted after hours. Automation of barracks door opening and closing not only improves accessibility, but also strengthens security and protects residents.

Managing electronic access throughout a military base for all barracks is cost-effective and efficient. However, innovative solutions are needed in many older buildings since running new wire to support electronic devices is costly and disruptive.

Barracks and BEQ door operational requirements:

- Doors are usually unlocked during the day
- Access allowed by valid credentials or keypad after hours
- Free egress is needed at all times

Note: Please refer to Allegion's BAA catalog for a full selection of BAA compliant hardware options.



Standard features

Building and safety codes may vary, but most barracks and BEQ doors have these standard features:

- | | |
|----------------------------------|--|
| 1 Schlage electronic lock | 8 Steelcraft GrainTech hollow metal door |
| 2 Schlage handheld device | 9 Schlage reader controller |
| 3 Steelcraft hollow metal frame | |
| 4 Steelcraft door | |
| 5 Ives hinges | |
| 6 Ives kick plate | |
| 7 Schlage panel interface module | |

Note: Please refer to Allegion's BAA catalog for a full selection of BAA compliant hardware options.

Innovative solutions for barracks and BEQ doors

A safe and secure barracks/BEQ door includes innovative solutions designed by Allegion specifically for this unique application. For FIPS 201-1** solutions that leverage open architecture and comply with the HPSD-12* directive, look no further than Allegion.

Schlage® AD-Series electronic locks

- Schlage offers the only FIPS 201/PIV-compliant wireless integrated reader and lock available today
- AD-301 (hardwired) and AD-401 (wireless) electronic integrated locks include multi-tech plus a keypad reader
- AD-201 locks offer the convenience of standalone operation, with each lock managed individually
- Schlage locks are a perfect replacement for existing locks because they are easy to program and install, especially in retrofit applications
- Locks can easily be upgraded to different credential types without removing the lock from the door

Safer barracks start with secure credentials

Allegion delivers a host of credential types that work with your door hardware to keep barracks and BEQ doors safe and secure, while preventing unauthorized duplication of credentials.

- Schlage Everest™ 29 high-security key system makes it impossible for keys to be duplicated without authorization
- Smart card credentials can be combined with others—such as PIN or biometric readers—depending on security needs

* For more information visit <http://www.dhs.gov/homeland-security-presidential-directive-12>
**Refers to Federal Information Processing Standard Publication 201

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Start with Allegion

Call **855-614-5874**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions

Visit **us.allegion.com/industries/government**

- Access information on our comprehensive BAA Compliant Product Guide for selecting American-made products
- Find LEED certified, ADA and FIPS 201 compliant solutions and services
- Access Cooperative Purchasing 'where to buy' information



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.



High security data, asset and lab doors

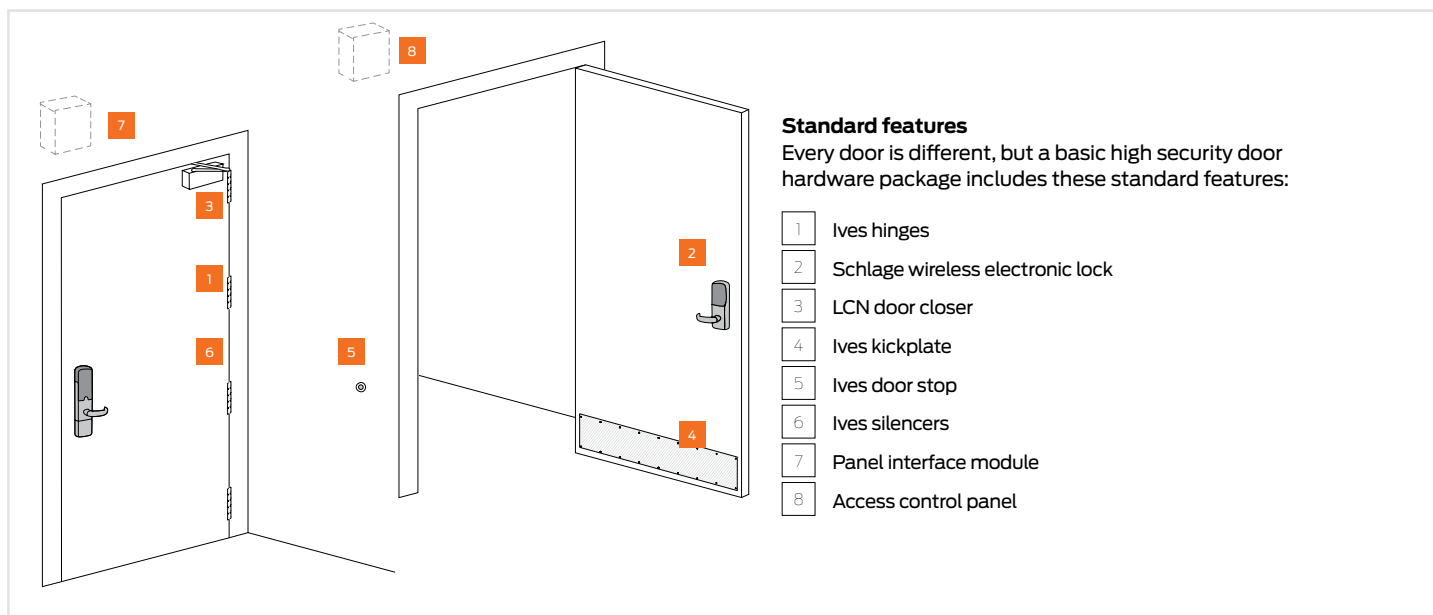
Education solutions

Restricted areas like laboratories, records offices and server equipment rooms typically have a limited number of users, but require a very high level of security to protect private, dangerous or expensive materials, goods or information.

In the education setting, these doors also require quick, reliable lockdown, while still meeting local and state building codes for fire and life safety.

High security door operational requirements:

- Door is normally secured
- Access is possible by valid credential or keypad
- Free egress is available at all times



Innovative solutions for high security openings

An effective high security door is the result of the right products and technology at work. Allegion recommends:

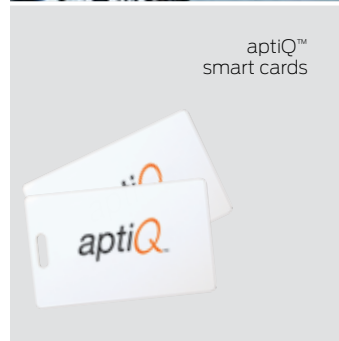
aptiQ™ smart cards

- Smart cards employ MIFARE and MIFARE DESFire™ EV1 technology, making them an ideal credential for high security openings.
- These cards can also store data about the user, and integrate with other systems in place at a school or university for services like cashless vending.
- aptiQ smart cards operate on a 13.56 MHz frequency, and utilize high security encryption to provide optimum security for your data.

Schlage® Wireless AD-400 Series

- The AD-Series wireless locks combine all the components required for a complete access control system into one integrated design that includes the electrified lock, credential reader, request-to-enter/-exit sensors, door position switch and more.
- The AD-400 utilizes patent-pending Wake-Up On Radio™ technology to enable real-time centralized lockdown of a school.
- It can be customized with a variety of credential readers, including keypad, magnetic stripe or multi-technology for proximity and smart cards.
- The AD-Series was designed on an open architecture platform so that it can easily be integrated into virtually any access control system via Wiegand, Clock & Data or RS-485.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



aptiQ™ smart cards



Schlage® AD-400 locks



Start with Allegion

Call **877-671-7011**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, grant funding or seamless integration with your one card system

Visit **www.allegion.com/us/industries/education**

- Access our online security and safety self-assessment tools
- Find information about our products and services
- Review a case study about how a community college got the upper hand on security



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
005516, Rev. 05/14
www.allegion.com/us



Integrated security solution

Schlage Control™ Smart Locks with ENGAGE™ technology integrated with Kastle Systems



Overview

Schlage Control™ Smart Locks with ENGAGE™ technology seamlessly integrate with Kastle Systems to provide a cost effective and scalable access control solution to meet your security needs.

With Kastle and an ENGAGE technology integration, it's easy to configure lock settings, manage users with basic access privileges and view lock audits from virtually anywhere all via a single solution. Schlage Control Smart Locks combined with Kastle means a single credential for your residents that works throughout your property, and it means you now have an answer to those 2 a.m. problems.

Schlage Control™ Smart Locks mark a new era of electronic access control in the multi-family world. By ushering in the next generation of highly scalable, efficiency boosting capabilities, multi-family properties can focus on operating more profitably—and with greater appeal for residents. Designed specifically for the resident unit door, Schlage Control Smart Locks feature a 100% pick- and bump-proof, no-cylinder design that improves security and safety.

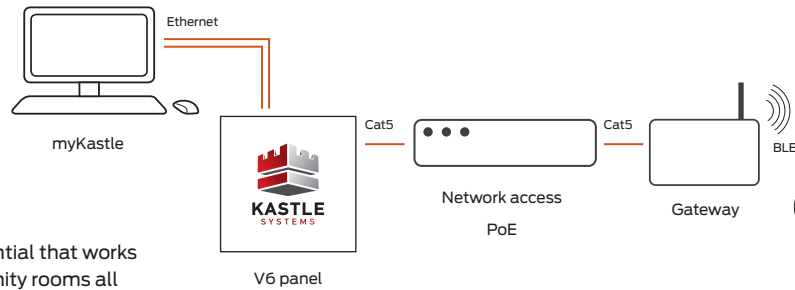
System Capabilities

- Kastle Systems
 - Centrally managed in real time, including audit reports via myKastle
 - Redundant, remote system monitoring for added backup security
 - Single credential for entire property
- Schlage Control™ Smart Lock
 - aptiQ MIFARE smart credentials
 - Deadbolt and interconnect designs available
 - Up to 500 users
 - Up to 2 years of battery life
 - 90 minute UL Listed A 156.12 Grade 2 ANSI/ BHMA certified

Schlage Control Smart Locks via IP with Kastle Systems and V6

Enhanced security has never been more convenient and accessible as it extends all the way to the residential unit door.

- Add, edit or revoke individual access in real time
- Deliver elevated security and flexibility as an amenity by eliminating the headaches of keys
- Enjoy the convenience of a single credential that works at the garage, lobby, elevators and amenity rooms all the way to the apartment door.
- Typical full building coverage can be enabled with V6 panels every 3-5 floors given a wireless range up to 100' (Wireless range varies based on building conditions)



System capabilities:	Schlage Control Smart Locks via IP PoE Gateway with Kastle Systems and V6 Panel
System capacity	
Maximum number of locks supported via network access	Up to 100 per V6 panel
Maximum number of users per lock	500 per lock
Update frequency	Real-time updates and audit reporting ¹
Maximum number of gateways per V6 panel	10
Maximum number of Schlage Control Smart Locks per gateway ²	10
Access control decision made by	Lock database
Remote linking capability via Host	Yes
Remote unlinking capability via Host	Yes
Credentials	
13.56 MHz Smart Credentials ³	aptiQ™ MIFARE Classic aptiQ™ MIFARE DESFire™ EV1
Status monitors	
Low battery monitoring	Yes
Credential attributes	
Normal credential	Yes
Toggle credential	Same function as Normal
Pass through credential	Yes
Visitor/one-time use credential	No
Freeze credential	Yes
Block	Yes

¹ Each Control lock can hold 1,000 audit events.

² The gateway supports a total of 10 ENGAGE enabled devices. This can be a combination of resident and common area locks. For information on common area locks consult the NDE Series wireless lock solution sheet.

³ Please contact Allegion for additional details on integrated features and credentials supported.

Allegion, the Allegion logo, aptiQ, Schlage, the Schlage logo, ENGAGE Technology, and the ENGAGE Technology logo are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

For additional information: visit www.kastle.com, call 1.855.KASTLE1 (1.855.527.8531), or email info@kastle.com

About Allegion™

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit www.allegion.com.

aptiQ ■ FALCON ■ IVES ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN





Integrated security solution

with AD-300/301 hardwired and AD-400/401 wireless devices and RS2 Access It!® Universal



Overview

Schlage AD Series electronic locks seamlessly integrate with RS2 Access It!® Universal to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

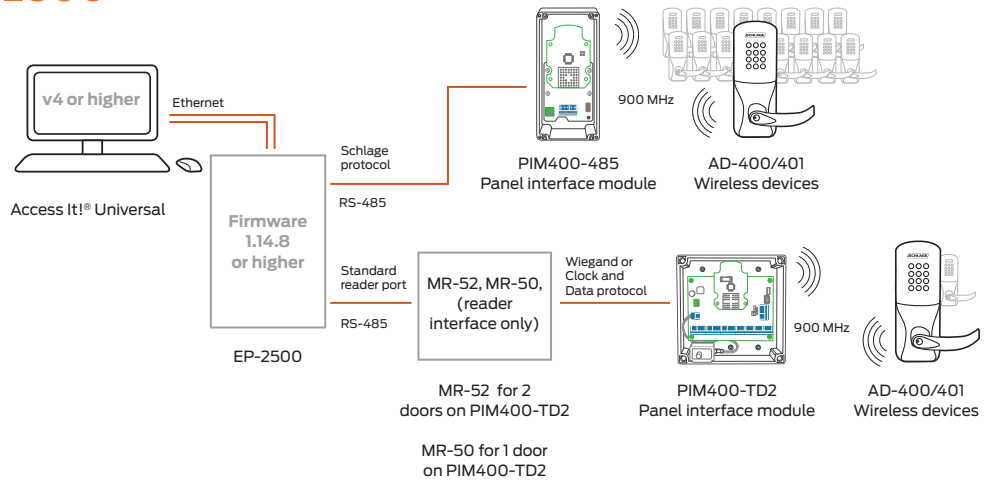
AD-301 and AD-401 FIPS 201-1 compliant solutions available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS compliant solutions by replacing existing reader with new FMK reader. Please contact RS2 to confirm they will be able to support your FIPS 201 credential format.

System Capabilities Summary

- AD-400 wireless applications:
 - Secure 900MHz wireless communication, AES-128 encrypted
 - IP addressable PoE PIM400-1501 supports up to 16 AD-400 devices.
 - Real time access control and monitoring
 - Patent-pending wireless lockdown/unlock feature (10 seconds or less) preserves 2 year battery life (4AA Batteries)
- AD-300 hardwired applications:
 - Field configurable fail safe/fail secure
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- AD Series wireless accessories available for remote, gate, elevator, and portable (mustering) applications.
- AD Series meets ANSI/BHMA A156.25, ANSI/BHMA Grade 1 requirements and is UL 294 Listed

AD-400/401 via RS-485 and/or Wiegand with Access It! and EP-2500

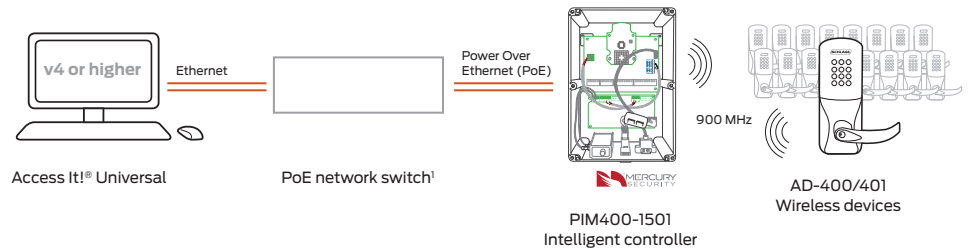
- EP-2500 controllers support up to 64 readers
- EP-1501 controllers (PIM400-TD2 only) support up to 17 wireless devices
- Each connected PIM400-485 can support up to 16 wireless devices
- Each connected PIM400-TD2 can support up to 2 wireless devices
- Wireless range up to 200' in typical building construction



AD-400/401 via PIM400-1501 with Access It!

- PIM400-1501 controllers support up to 16 AD-400/401s
- Wireless range up to 200' in typical building construction

1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE

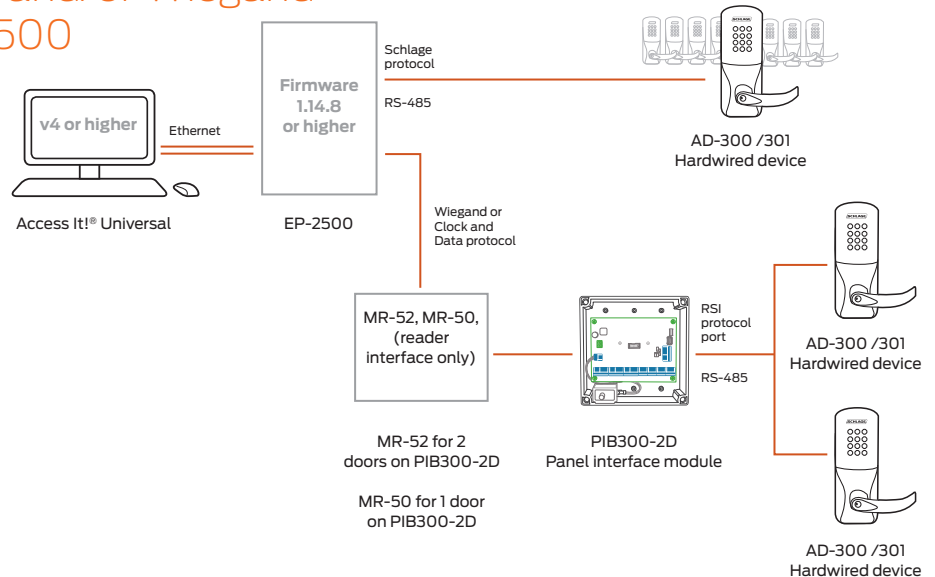


AD-300/301 via RS-485 and/or Wiegand with Access It! and EP-2500

- EP-2500 controller support up to 16 AD-300/301s, 8 per RS-485 port.
- EP-2500 controller has 2 RS-485 ports
- Each connected PIB300-2D can support up to 2 AD-300-301s

NOTE:

- Although not specifically shown, the EP-2500 can support both AD-300/301s and AD-400/401s in the same system and on a common port.
- EP-1502 controller supported when using Wiegand or Clock and Data Protocol with PIM400-TD2 or PIB300-2D but not shown here.



Please refer to AD-300, AD-301, PIB300-2D, AD-400, AD-401, PIM400-485, PIM400-TD2, and Relay Board RLBD data sheets for complete AD Series specifications.

System capabilities:

	AD-400/401 PIM400-485	AD-400/401 PIM400-TD2	AD-400/401 PIM400-1501	AD-300/301 Direct RS485	AD-300/301 PIB300-2D
Features					
Maximum number of readers supported by controller/PIM/PIB	64	64	16	16	2
Maximum number of readers per PIM400/PIB300	16	2	16	N/A	2
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	up to 2	N/A	Up to 8	Up to 2
Access control decision made by host or by lock database	Host	Host	Host	Host	Host
Remote Linking capability via Host	No	No	No	N/A	N/A
Readers - see supported card formats below					
Keypad only	Yes	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes	Yes	Yes
Status monitors					
Request to exit	Yes	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes	Yes
Mechanical key override	No	No	No	No	No
Request to enter	No	No	No	No	No
Low battery status	Yes	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes/Yes	Yes	Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ^{2,3}	Yes (<10 sec) ²	Yes (<10 sec)	Yes (<10 sec)
Deadbolt position	No	No	No	No	No
Interior push button	Yes	No	Yes	Yes	No
Lock functions					
Classroom/storeroom	Yes	Yes	Yes	Yes	Yes
Licensing Please contact RS2 Technologies to determine licensing requirements.					

Please contact RS2 Technologies for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

- 1 FIPS 201 compliant option: The AD Series can be used in application which require approval by the US Federal Government under HSPD-12 for FIPS 201 Compliance. Specific components are required, please see the AD-301 and AD-401 data sheet for complete details. Contact RS2 to confirm they are able to support your FIPS 201-1 credential format.
- 2 For greater than 1 device will be <20 sec.
- 3 Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

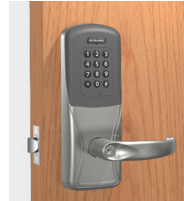
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400/AD-300-MS)



Cylindrical Lock (AD-400/AD-300-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



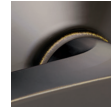
605 Bright brass



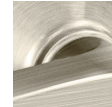
606 Satin brass



612 Satin bronze



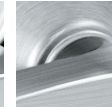
643e Aged bronze



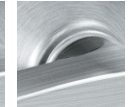
619 Satin nickel



625 Bright chrome



626 Satin chrome



626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005136, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400 wireless devices and S2 NetBox



Overview

Schlage AD Series locks seamlessly integrate with S2 NetBox to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

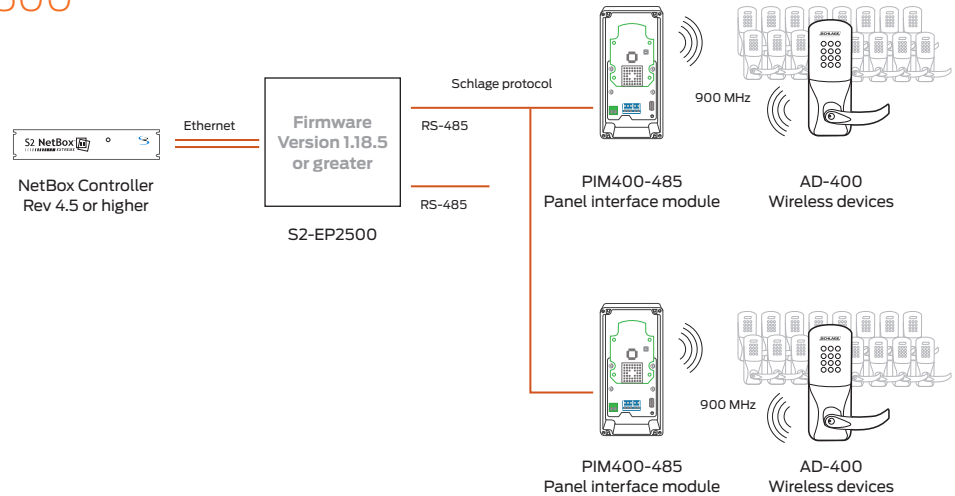
System Capabilities

Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with S2 NetBox and S2-EP2500

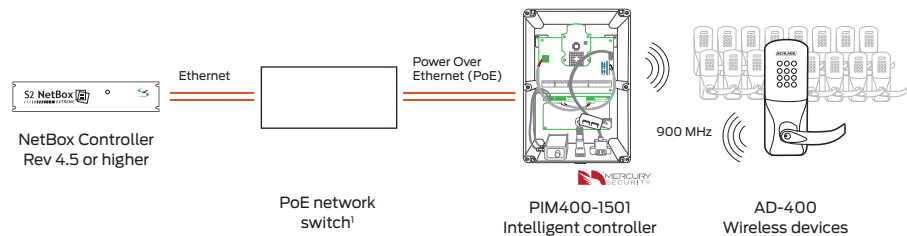
- S2-EP2500 supports up to 64 total locks
- S2-EP2500 supports a maximum of 8 PIM400-485 per RS-485 port. There are 2 RS-485 ports on each S2-EP2500.
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



AD-400 via PIM400-1501 with S2 NetBox

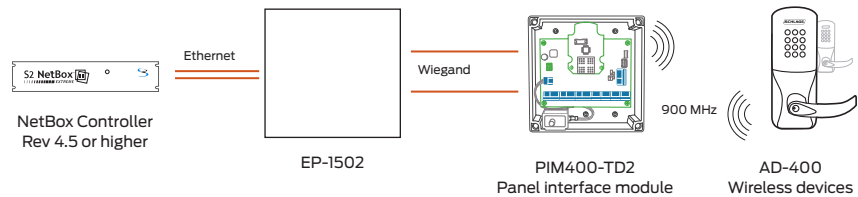
- PIM400-1501 supports up to 16 AD-400s
- Wireless range up to 200' in typical building construction, up to 1000' line of sight

1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-400 via Wiegand with S2 NetBox and EP-1502

- EP1502 supports 2 AD-400 wireless locks via PIM400-TD2
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



Note:

Please refer to AD-400, PIM400-485, PIM400-1501, PIM400-TD2 and WRI400 data sheets for complete AD Series specifications

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-1501	AD-400 EP-1502/PIM400-TD2
Features			
Maximum number of readers supported by controller/PIM	64	16	2
Maximum number of readers per PIM400	Up to 16	Up to 16	Up to 2
Maximum number of PIM400s per RS-485 port	Up to 8	N/A	N/A
Access control decision made by host or by lock database	Host	Host	Host
Remote Linking capability via Host	No	No	No
Readers - see supported card formats below			
Keypad only	No	No	No
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes
Card + PIN	Yes (up to 6 digits)	Yes (up to 6 digits)	Yes (up to 6 digits)
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	Yes	Yes	No
Request to enter	No	No	No
Low battery status	Yes	Yes	No
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes
Deadbolt position	Yes ³	Yes ³	Yes ³
Interior push button	Yes ³	Yes ³	Yes ³
Lock functions			
Storeroom	Yes	Yes	Yes
Office	Yes ³	Yes ³	Yes ³
Privacy	Yes ³	Yes ³	Yes ³
Apartment	Yes ³	Yes ³	Yes ³
Licensing	Please contact S2 Security to determine licensing requirements.		

Please contact S2 Security for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact S2 Security to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec

³ Requires NetBox Controller version 4.7 or higher

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

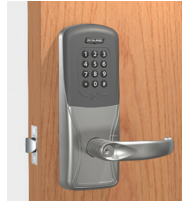
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



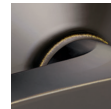
605
Bright brass



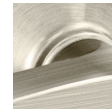
606
Satin brass



612
Satin bronze



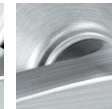
643e
Aged bronze



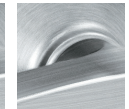
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009822, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-300/301 hardwired, AD-400/401 wireless devices and Andover Continuum Netcontroller II and ACX 57XX Family of controllers



Overview

Schlage AD Series locks seamlessly integrate with Andover Continuum Netcontroller II and ACX 57XX family of controllers to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine all of the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

Within Andover Continuum Cyberstation the Schlage locking device will look and function like a normal door. An XDriver at the controller level will provide access to these devices.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

AD-301 and AD-401 FIPS 201-1 compliant solutions available using FMK readers in Wiegand integrations only. Existing AD-300 and AD-400 locks can be upgraded to FIPS compliant solutions by replacing existing reader with new FMK reader. Please contact Schneider Electric to confirm they will be able to support your FIPS 201 credential format.

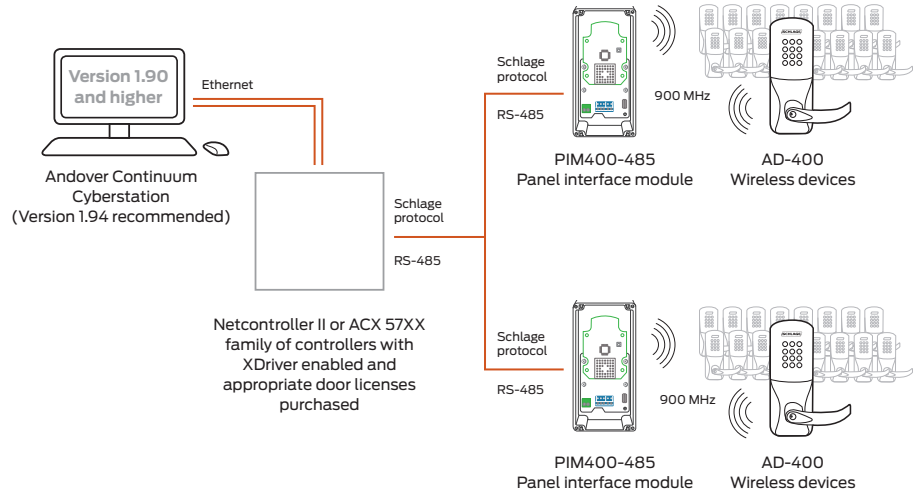
System Capabilities Summary

- AD-300 hardwired applications:
 - RS485 direct connection
 - Field configurable fail safe/fail secure
- AD-400 wireless applications:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Patent pending wireless lockdown /unlock feature via PIM400 in 10 seconds or less (preserves up to 2 year battery life)
 - Powered by four (4) standard off-the-shelf AA batteries
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with Andover Continuum Cyberstation

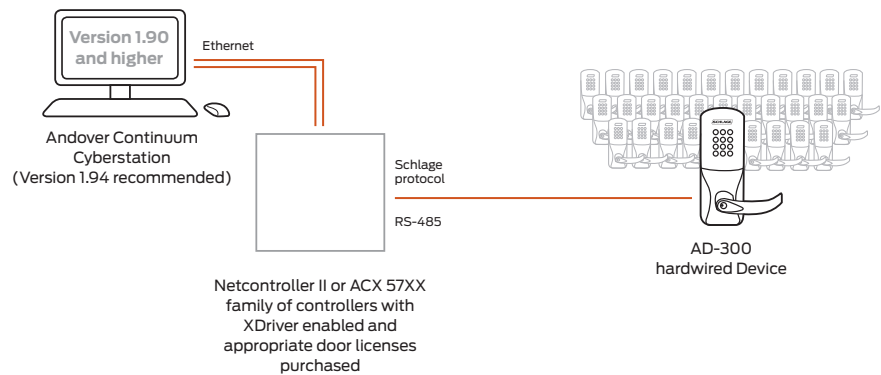
- Andover Continuum Controllers support up to 64 devices
 - Each connected PIM400-485 can support up to 16 devices
 - Each Andover Continuum controller supports 1 XDriver with up to 4 PIM400-485s daisy chained for a total of 64 devices
 - Up to 56 unique areas are supported in each access controller
- Wireless range up to 200' in typical building construction, up to 1000' line of site

Note: While not specifically shown, AD-300 and AD-400 can be managed by a common controller with total hardwired devices not to exceed 32 and up to 64 AD locks total.



AD-300 via RS-485 with Andover Continuum Cyberstation

- Andover Continuum Controllers support up to 32 devices via hardwired RS-485



Note:

Please refer to AD-300, AD-301, AD-400, AD-401 and PIM400-485 data sheets for complete AD Series specifications.

AD-301 and AD-401 FIPS 201-1 compliant locks are used exclusively in the Schneider Electric Wiegand solutions only.

For additional information contact Schneider Electric: 800.274.5551 or www.schneider-electric.com

System capabilities:

	AD-400 PIM400-485	AD-300 Direct RS485
Features		
Maximum number of readers supported by controller	64	32
Maximum number of readers per PIM400	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	4 PIM400s	32 AD locks
Access control decision made by host or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
Readers - see supported card formats below		
Keypad only	No	No
Magnetic stripe card	Yes (ABA Track 2) ¹	Yes (ABA Track 2) ¹
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible	Yes ²	Yes ²
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	Yes	Yes
Request to enter	No	No
Low battery status	Yes	N/A
Communication status: RF/RS485	Yes/Yes	Yes
Remote lockdown/unlock	Yes (<10 sec)	Yes
Deadbolt position	Yes	Yes
Interior push button	Yes	Yes
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing Please contact Schneider Electric to determine licensing requirements.		

Please contact Schneider Electric for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASl®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ ABA Track 2

² AD-301 and AD-401 are supported FIPS 201-1 in Schneider Electric Wiegand solutions only. FIPS-201-1 compliant option available requires FMK reader. Schneider Electric supports FIPS 201 credentials when used in a Wiegand system only with our PIM400-TD2. The AD Series can be used in application which require approval by the US Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheets for complete details. Contact Schneider Electric to confirm they are able to support your FIPS 201-1 credential format.

³ Specific lock, firmware, and configuration required for Secure Sector of iCLASS credentials.

Please note: Only Continuum Credential 1 is supported

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

Compatibility

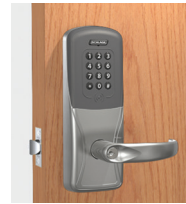
AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise lock (shown below)
(AD-300/400-MS)

Mortise Deadbolt Lock
(AD-300/400-MD)



Cylindrical lock
(AD-300/400-CY)



Exit Device Trim
(AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



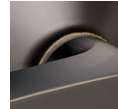
605
Bright brass



606
Satin brass

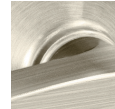


612
Satin bronze



643e
Aged bronze

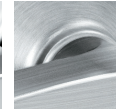
Cool tone finishes



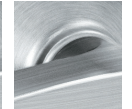
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
005133, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-300 hardwired, AD-400 wireless devices and Genetec Synergis IP access control system



Overview

Schlage AD Series locks seamlessly integrate with the Genetec™ Synergis™ Access Control System to provide a cost effective and scalable access control solution to meet your security needs. With the Synergis system, you can deploy IP-based access control with Schlage electronic locks to conveniently extend the reach of your security system to hard to reach areas without compromising security.

With the Synergis Access Control System, operators are able to:

- Manage and monitor all of their security infrastructure from a single platform
- Run consolidated reports across all their entire access control deployment, including electronic locks
- Achieve greater situational awareness by viewing all Schlage lock events and alarms linked with live and recorded video when unified with Security Center

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

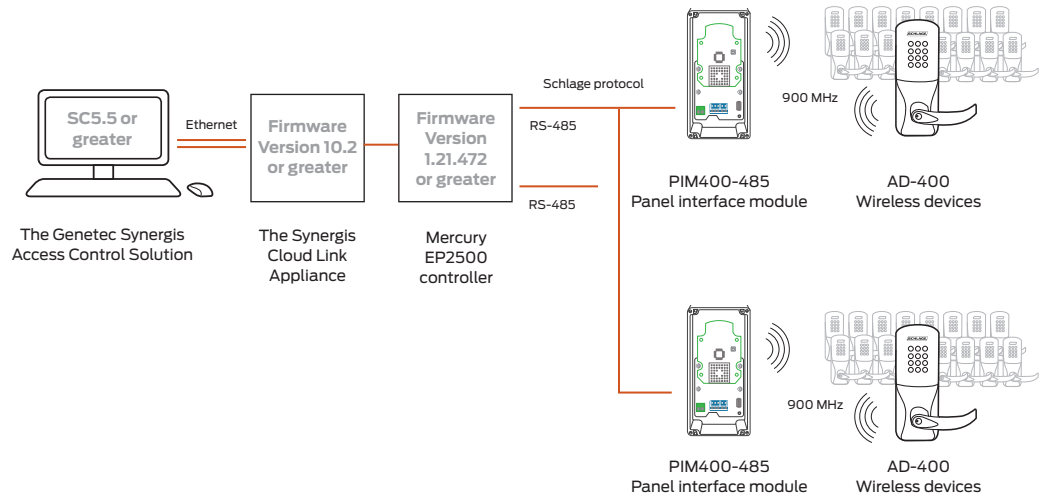
The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-300 Hardwired
 - Field configurable fail safe/fail secure
- AD-400 Wireless
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with the Synergis System and Mercury EP2500 controllers

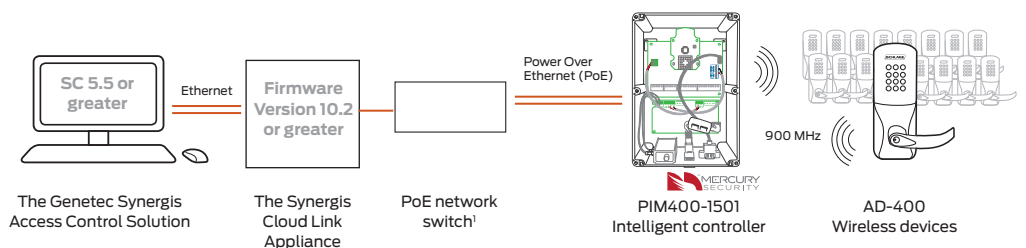
- Mercury EP2500 controller supports up to 64 locks.
- Mercury EP2500 controller supports a maximum of 8 PIM400-485 per RS-485 port. There are 2 RS-485 ports on each Mercury EP2500 controller.
- Although not specifically shown, the Mercury EP2500 controller can simultaneously support both the AD-300s and AD-400s on a common port. You are limited to 8 PIM400-485 and AD-300 combined per RS-485 port and a maximum of 64 AD locks per Mercury EP2500 controller.
- Wireless range up to 200' in typical building construction, up to 1000' line of sight.



AD-400 via PIM400-1501 with The Synergis System

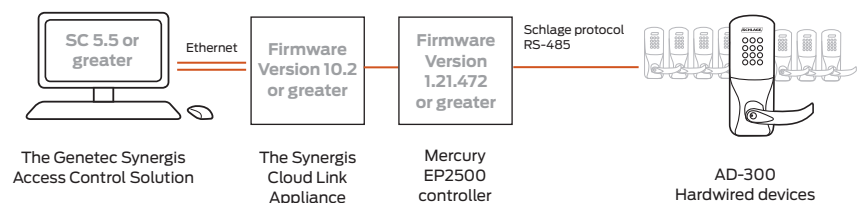
- PIM400-1501 supports up to 16 AD-400s.
- Wireless range up to 200' in typical building construction, up to 1000' line of sight.

1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300 with the Synergis System and Mercury EP2500 controllers

- Mercury EP2500 controller supports a maximum of 16 AD-300 locks (8 per port).
- Although not specifically shown, the Mercury EP2500 controller can simultaneously support both the AD-300s and AD-400s on a common port. You are limited to 8 PIM400-485 and AD-300 combined per RS-485 port and a maximum of 64 AD locks per Mercury EP2500 controller.



Note:

Please refer to AD-300, AD-400, PIM400-485, and PIM400-1501 data sheets for complete AD-Series specifications

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-1501	AD-300 Direct RS485
Features			
Maximum number of readers supported by controller/PIM ¹	64	16	16
Maximum number of readers per PIM400	16	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	Up to 8
Access control decision made by host or by lock database	Host	Host	Host
Remote Linking capability via Host	No	No	N/A
Readers - see supported card formats below			
Keypad only	No	No	No
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	No	No	No
Card + PIN	Yes	Yes	Yes
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes
Request to enter	No	No	No
Low battery status	Yes	Yes	N/A
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes (<10 sec)
Deadbolt position	Yes	Yes	Yes
Interior push button	Yes	Yes	Yes
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Office	Yes	Yes	Yes
Privacy	Yes	Yes	Yes
Apartment	Yes	Yes	Yes
Licensing	Please contact Genetec to determine licensing requirements		

Please contact Genetec for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

¹ Maximum 256 readers supported per Synergis™ Cloud Link

² For greater than 1 device will be <20 sec.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

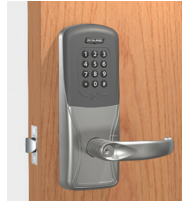
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



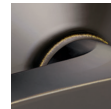
605
Bright brass



606
Satin brass

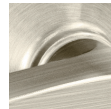


612
Satin bronze



643e
Aged bronze

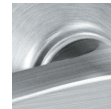
Cool tone finishes



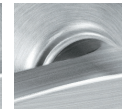
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011179, Rev. 12/17
www.allegion.com/us



Unrestricted main entry doors

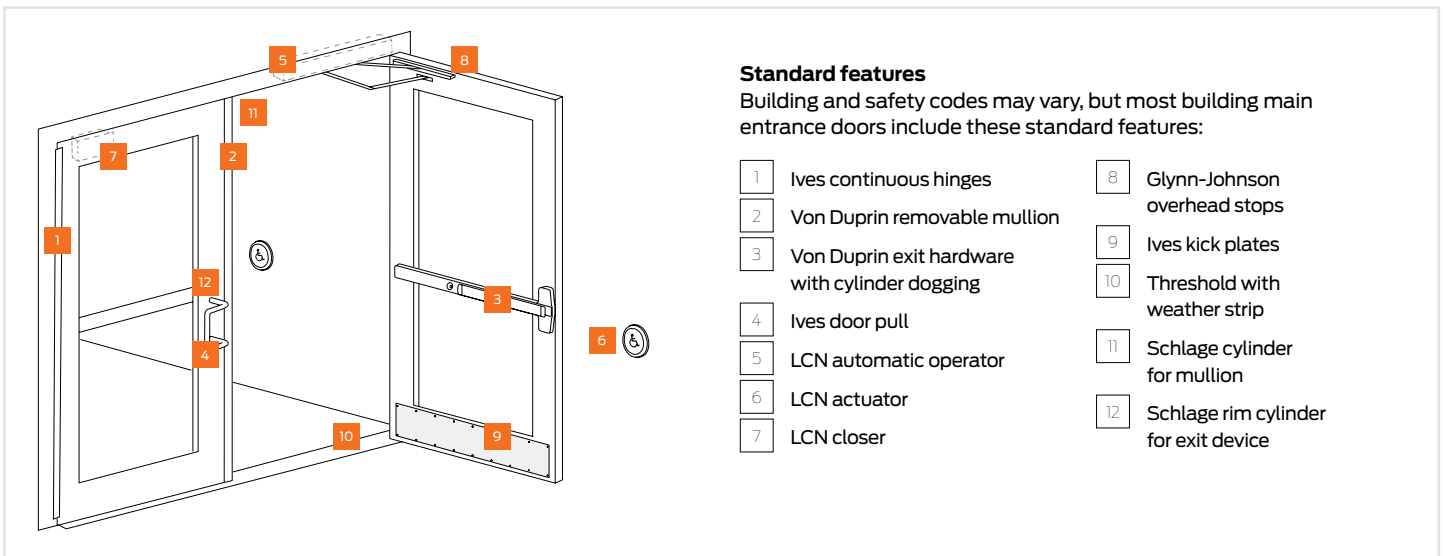
Education solutions

Perimeter entrances in schools are typically high-traffic openings that must balance the need for access control and lockdown with accessibility and freedom of movement.

At least one opening must comply with disability requirement. Every door must provide egress at all times. What's more, older buildings may present a host of challenges when electronic solutions are needed. Certain opening and building conditions may require the use of automatic operators.

Unrestricted main entry door operational requirements:

- Doors normally unlocked during day; locked after hours
- Access gained by a valid credential, key or staff release
- Free egress available at all times



Innovative solutions for unrestricted main entry doors

Alliegion security products and solutions are present in schools across the U.S. School facility managers trust our products and innovations to provide safe access and egress, while also addressing security threats. Alliegion has a solution for every school security challenge.

Schlage® Everest™ 29 patented key system

- Patent restricted keyways such as Everest 29 have an exclusive undercut design that can only be duplicated by authorized locksmiths.
- Everest 29 keys work by lifting the check pin when the key is inserted into the cylinder, allowing the key to turn and the lock to open.
- This patented interaction between the key and the cylinder is protected through 2029 and ensures the integrity of the system at every opening.
- Multiple levels of security ensure that you get the right solution throughout your facility or campus.
- The new Everest 29 patent enables a key blank that is backwards compatible to legacy Everest keyways allowing Everest 29 keys to work with existing Everest systems aiding the key system migration process.



Schlage®
Everest™ 29
key system

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Alliegion representative to design a specification to meet your unique needs.

Start with Alliegion

Call **877-671-7011**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, grant funding or seamless integration with your one card system

Visit **www.alliegion.com/us/industries/education**

- Access our online security and safety self-assessment tools
- Find information about our products and services
- Review a guide to our architectural hardware consultation and specifying services



About Alliegion

Alliegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Alliegion employs more than 8,000 people and sells products in more than 120 countries across the world. Alliegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.alliegion.com**.



Integrated security solution

with AD-400 wireless devices
and Honeywell Pro-Watch system

Honeywell



Overview

Schlage AD Series locks seamlessly integrate with Honeywell Pro-Watch System to provide a cost effective and scalable access control solution to meet your security needs.

Honeywell's Pro-Watch® security management suite provides the flexibility, scalability and control required for comprehensive security management. Pro-Watch equips organizations with the right tools to protect people, secure assets and ensure regulatory compliance by combining access control, digital video, intrusion and other functions into one powerful system. Modular hardware and software options make it easy and cost-effective to expand a system to keep up with growing business needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

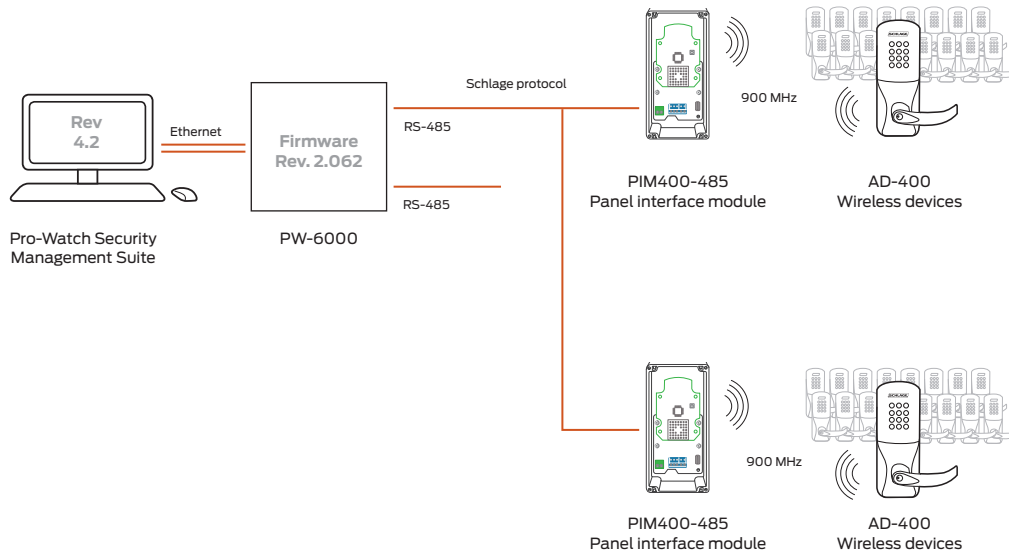
System Capabilities Summary

AD-400 wireless:

- Secure 900 MHz wireless communication, AES-128 bit encrypted
- Real time access control and monitoring
- Powered by four (4) standard off-the-shelf AA batteries
- Patent pending wireless lockdown /unlock feature via PIM400-485 (in 10 seconds or less) preserves up to 2 year battery life
- PW-6000 supports up to 64 AD-400 wireless locks
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400)
 - Wireless Reader Interface (WRI400) eliminates running wires to remote doors
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with PW-6000

- Supports up to 64 AD-400 wireless locks
- Up to (8) PIM400-485 devices per RS485 port



Note:

Please refer to AD-400 and PIM400-485 data sheets for complete AD Series specifications. Please contact Honeywell for Wiegand options.

For additional information contact Honeywell: 1.800.323.4576, option 2 or honeywellaccess.com

System capabilities:

	AD-400/401 PIM400-485
Features	
Maximum number of readers supported by controller/PIM	64
Maximum number of readers per PIM400	16
Maximum number of PIM400s per RS-485 port	Up to 8
Access control decision made by host or by lock database	Host
Remote Linking capability via Host	No
Readers - see supported card formats below	
Keypad only	Yes
Magnetic stripe card	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes
PIV & PIV-I card compatible ¹	Yes
Card + PIN	Yes
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	Yes
Request to enter	No
Low battery status	Yes
Communication status: RF/RS-485	Yes /Yes
Remote lockdown/unlock	Yes (<10 sec) ²
Deadbolt position	No
Interior push button	No
Lock functions	
Classroom/storeroom	Yes
Licensing	
	Please contact Honeywell to determine licensing requirements.

Please contact Honeywell for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Honeywell to confirm they are able to support your FIPS 201-1 credential format.

2 For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

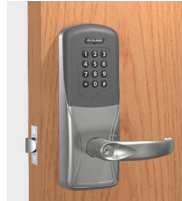
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



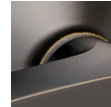
605
Bright brass



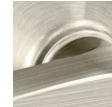
606
Satin brass



612
Satin bronze



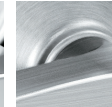
643e
Aged bronze



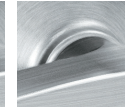
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009014, Rev. 09/17
www.allegion.com/us



High security area doors

Commercial real estate solutions

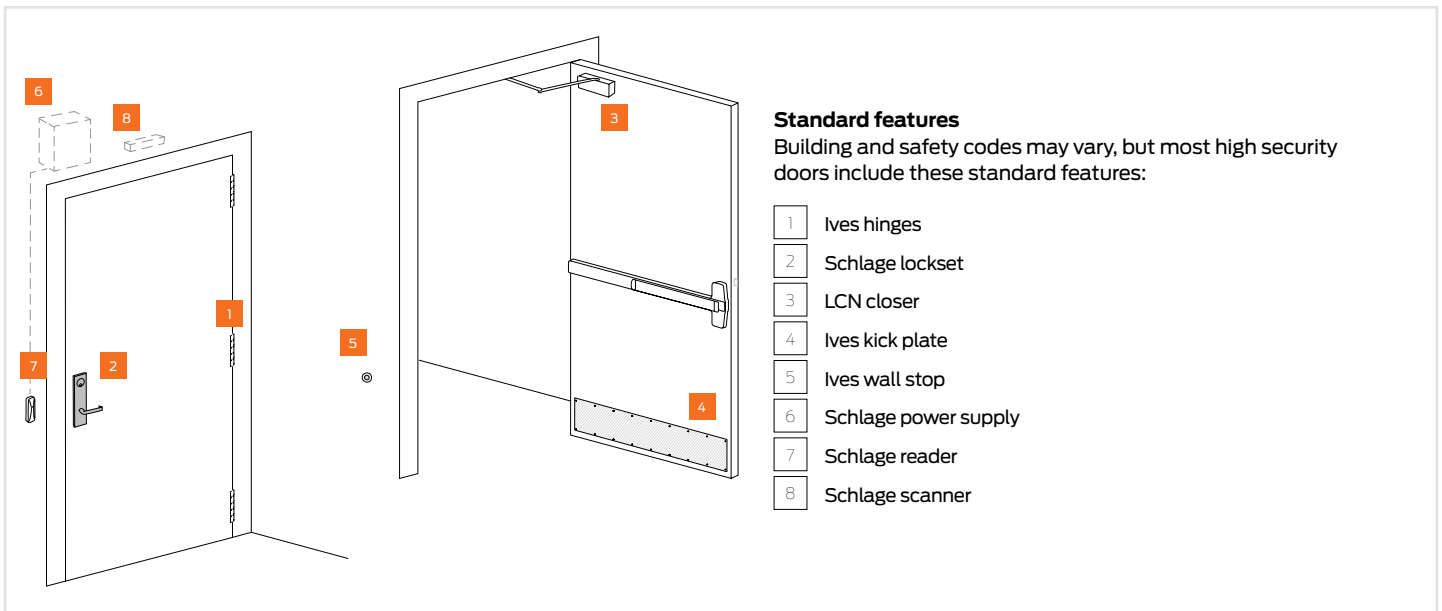


Whether it's a server storage room, confidential records storage, an in-house pharmacy or a laboratory, some rooms require the highest level of security, accessible only by authorized staff.

Ideally, physical security should also be able to help track who accessed the room and when, as well as prevent unauthorized duplication of credentials or keys. In addition to the security issues, local and state building codes for fire and life safety require easy egress from inside even when doors are locked from the outside.

High security area doors operational requirements:

- Door is normally secured
- Access is possible by valid credential or keypad
- Free egress is available at all times



Innovative solutions for high security doors

Effective and reliable credential management is critical to the overall security of your facility. Allegion has developed innovative solutions specifically for high-security openings.

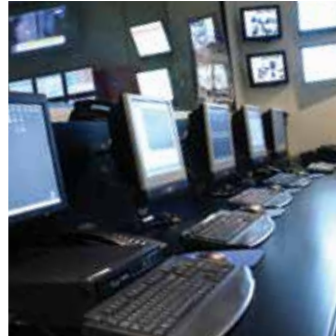
Schlage® biometrics readers

- Provide an additional level of assurance by using an individual's hand geometry as a second method of validating their credential before authorizing access.
- For applications where reliability and high security are critical.

Schlage® AD-Series and CO-Series electronic locks

- Choose from seven different reader options, including keypad, magnetic stripe (insert and swipe), and multi-technology.
- Migrate to new credential readers or network communication modules in minutes; no need to take the lock off of the door.

High security doors are a perfect application for both mechanical and electro-mechanical hardware. Electronic access can allow tracking of credentials that access an area where reporting is required or desired, while also enabling lockdown.



Schlage®
biometrics readers



Schlage® CO-Series
electronic locks



Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.

Start with Allegion

Call **888-758-9823**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, building security assessments or key systems management

Visit **www.allegion.com/us/industries/commercial**

- Access information for BOMA 360 tools and resources
- Find information about our products and services
- Review case studies and articles about physical security solutions in commercial environments



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009136, Rev. 03/14
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and AccessNsite

AccessNsite®



Overview

Schlage® NDE and LE locks with ENGAGE™ technology seamlessly integrate with AccessNsite to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

AccessNsite integrates access control, intrusion detection, and video surveillance. AccessNsite's flexibility allows it to work with multiple operating systems and support multiple databases on the application server or separate server.

AccessNsite also supports AD Series locks allowing you to combine both lock platforms into a single solution.

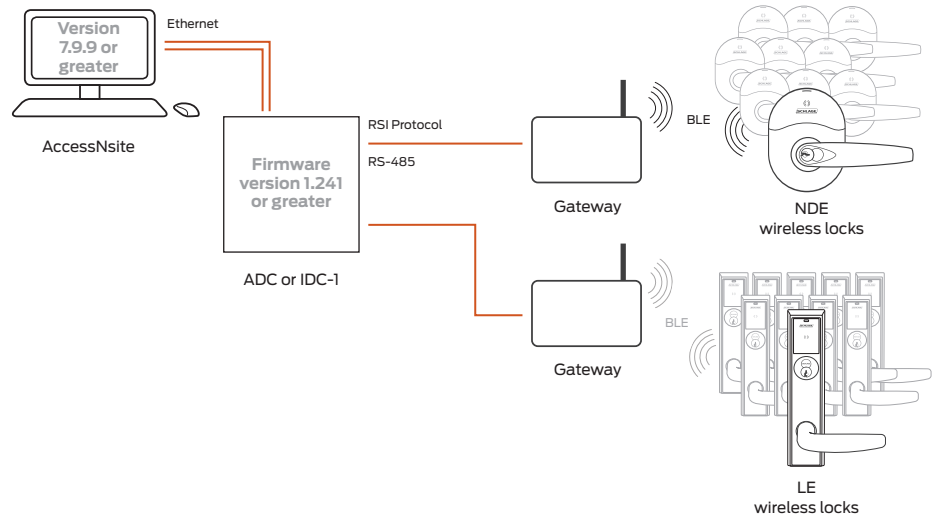
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with AccessNsite and ADC

- ADC supports up to 64 NDE and LE locks combined, IDC-1 supports up to 17 NDE and LE locks combined
- ADC and IDC-1 support a maximum of 8 gateways per RS-485 port
- There are two RS-485 ports on each ADC and one on each IDC-1
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

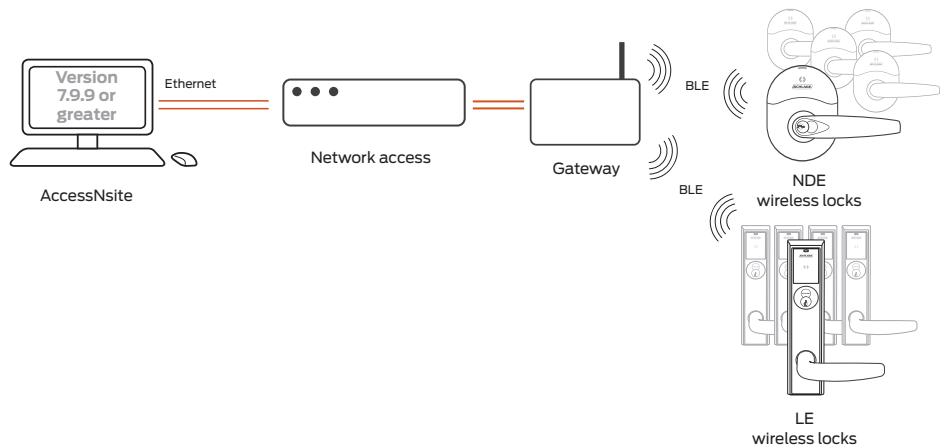
* Reference ENGAGE Gateway data sheet for additional details.



NDE/LE locks via IP with AccessNsite

- The AccessNsite Allegion Driver supports an unlimited NDE/LE locks total
- The AccessNsite Allegion Driver supports an unlimited number of gateways
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact AccessNsite at: 1.877.815.5511

System capabilities:

	NDE/LE locks via Gateway (RS-485)/ADC	NDE/LE locks with Gateway via IDC-1	NDE/LE locks with Gateway via IP
Features			
Maximum number of locks supported by controller	64	16	N/A
Maximum number of locks supported via network access	N/A	N/A	Unlimited
Maximum number of gateways per controller/Host	16 or 8 per port	8	Unlimited
Maximum number of NDE/LE locks per gateway	10	10	10
Access control decision made by controller or by lock database	Controller	Controller	Lock
Remote linking capability via Host	No	No	Yes
Update frequency	Real time	Real time	Real time
Schedules	Yes	Yes	Yes
Holiday	Yes	Yes	Yes
Credentials			
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A	N/A
Status monitors			
Request to exit	Yes	Yes	No
Door position	Yes	Yes	Yes
Mechanical key override	N/A	N/A	N/A
Request to enter	N/A	N/A	N/A
Low battery status	Yes	Yes	Yes
Communication Status BLE/RS-485	Yes	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)	Yes (<5 sec)
Interior push button	Yes ¹	Yes ¹	Yes ¹
Deadbolt position	Yes ¹	Yes ¹	Yes ¹
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Office - LE only	Yes ¹	Yes ¹	Yes ¹
Privacy - LE only	Yes ¹	Yes ¹	Yes ¹
Apartment - LE only	Yes ¹	Yes ¹	Yes ¹
Licensing			
Please contact AccessNsite to determine licensing requirements			

1. Applies to LE only

Please contact AccessNsite for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

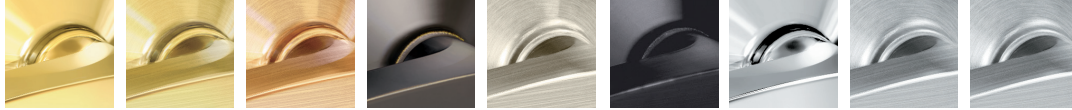
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011611, Rev. 12/17
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal



Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.

Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enable maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability
- Employee self-service kiosk functions
- Real-time communications

NOVAtime Technology Inc.

NOVAtime Technology Inc. is consistently recognized as a technological leader of the Workforce Management industry. Founded in 1999, NOVAtime has become one of the largest Time and Attendance providers in the United States, helping organizations around the world automate and simplify labor management processes. By providing flexible and scalable applications, NOVAtime allows organizations of all sizes and complexities to find the most compatible solution for their business needs.

NOVAtime's strategy for success focuses on persistent research and development of new technologies. Continuous improvement of its workforce management solutions and the advancement of its product offerings are results of NOVAtime's determination to provide well-rounded products with the ability to integrate with multiple applications (HRIS, Payroll, Finance, ERP, etc.). The latest NOVAtime 4000 solution is innovative, reliable, and fully integrated with time and attendance, scheduling, leave and accrual, expense tracking, etc. The application can be delivered through NOVAtime's true Software as a Service (SaaS), which is hosted through the cloud, or it can be provided as an on-premise, licensed model that is installed on the customer's servers.

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Firmware specifications

Inputs and outputs:	<ul style="list-style-type: none">▪ Bell/door access relay port
Special features:	<ul style="list-style-type: none">▪ Software as a Service (SaaS) solution▪ Centralized database▪ Hand template management▪ Auto configuration (limited to DHCP)▪ Debug logging (limited)▪ Double-punch restriction (minimum elapsed time – handled in the software)▪ Automated data synchronization▪ Foreign language support (limited support in function key prompts and internal messaging)▪ foreign language support (limited support in function key prompts and internal messaging)▪ Data encryption (if customer chooses to use ssl)
Credential inputs:	<ul style="list-style-type: none">▪ PIN - ID (digit length)
Supervisor capabilities:	<ul style="list-style-type: none">▪ Enroll employee hand template▪ Add punch for specific employee▪ Real-time employee data management▪ Bell scheduling - supervisor may create a bell schedule via the software
Employee capabilities:	<ul style="list-style-type: none">▪ Department/job transfer▪ Input sick leave hours, vacation hours, personal leave time, etc.▪ Review last punch▪ Review schedules▪ Review accrual balances▪ Review timecard▪ Trigger relay▪ Tip entry▪ Lunch punch lockout (minimum break length)▪ Employee messages

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009516, Rev. 05/14
www.allegion.com/us

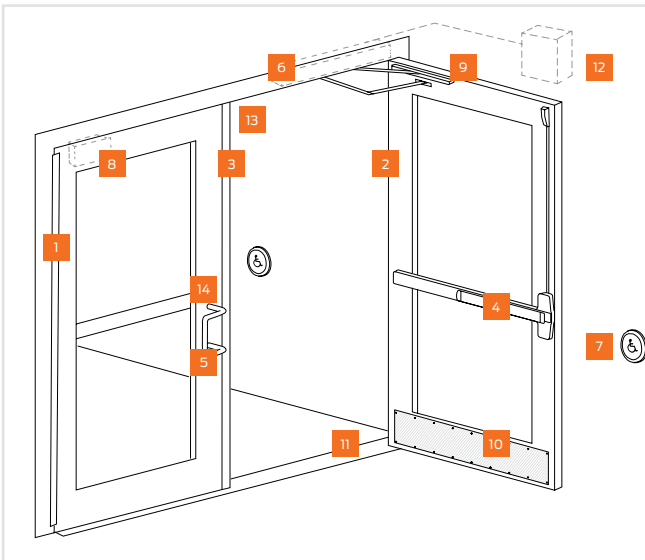


Main entrances to offices are a hub of activity, with employees and guests coming and going throughout the workday. It is important for these openings to be easily accessible for everyone.

Monitoring traffic flow and building access in these areas can help protect the office from unauthorized visitors, theft and vandalism, while protecting valuable assets and records inside the office.

Main entrance doors operational requirements:

- Doors are normally closed and secured by a magnetic lock
- Access authorized by valid credential or keypad
- Motion detector monitors authorized egress for access control system audit trail
- Free egress and exit at all times
- Push button required by code as a second form of release
- Most building codes require a fire alarm package if a magnetic lock is used



Standard features

Building and safety codes may vary, but most building secure main entrance doors include these standard features:

- | | |
|--------------------------------|---|
| 1 Ives continuous hinges | 10 Ives kick plates |
| 2 Von Duprin power transfer | 11 Threshold with weather strip |
| 3 Von Duprin removable mullion | 12 Von Duprin power supply |
| 4 Von Duprin exit hardware | 13 Schlage cylinder for mullion |
| 5 Ives door pull | 14 Schlage cylinder rim for exit device |
| 6 LCN automatic operator | |
| 7 LCN actuator | |
| 8 LCN closer | |
| 9 Glynn-Johnson overhead stops | |

Innovative solutions for main entrance doors

aptiQ™ Smart Technology from Allegion enhances the intelligence of products through a secure, open architecture design in readers, credentials and smart phone applications. aptiQ seamlessly interfaces and communicates with a variety of products and provides a platform that easily adapts as new innovations enter the marketplace.

aptiQ multi-technology readers

- Recognize most proximity and smart credentials, including MIFARE® Classic, and MIFARE DESFire™ EV1 credentials.
- Are NFC-compatible.

aptiQ credentials

- Use sophisticated security features making them an effective credential that cannot be duplicated, and offer the highest security available in a card.
- Contactless smart credentials are available with a variety of data storage options and impressive data transfer rates in an open architecture design.

Allegion also recommends enhancing office security by using mechanical master key control to protect against unauthorized key duplication and to ensure continuity as tenants evolve. Security system upgrades that include closed caption television and digital video recording can also provide an audit trail of who has entered the building and when. Remember that hard-wired security solutions can be easily installed during new construction or build-outs. Wireless solutions can be cost effective for retrofits and upgrades in existing buildings.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Start with Allegion

Call **888-758-9823**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, building security assessments or key systems management

Visit **www.allegion.com/us/industries/commercial**

- Access information for BOMA 360 tools and resources
- Find information about our products and services
- Review case studies and articles about physical security solutions in commercial environments



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 7,800 people and sells products in more than 120 countries across the world. Allegion comprises 23 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009131, Rev. 03/14
www.allegion.com/us



Wiegand security solution

With AD-400/401 wireless
devices and Brivo Systems



Overview

Schlage AD Series locks seamlessly integrate with Brivo Systems to provide a cost effective and scalable access control solution to meet your security needs.

Brivo Systems, LLC is a SaaS-based security management systems provider for organizations that need to protect buildings and perimeter entry points. Brivo's innovative physical access control and video solutions empower organizations by giving administrators real-time visibility of security events and video in local or remote facilities—anytime, anywhere.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD-Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including realtime monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

AD-401 FIPS 201-1 compliant solutions available using FMK readers. Existing AD-400 locks can be upgraded to FIPS Compliant solutions by replacing existing reader with new FMK reader. Please contact Brivo to confirm they will be able to support your FIPS 201 credential format.

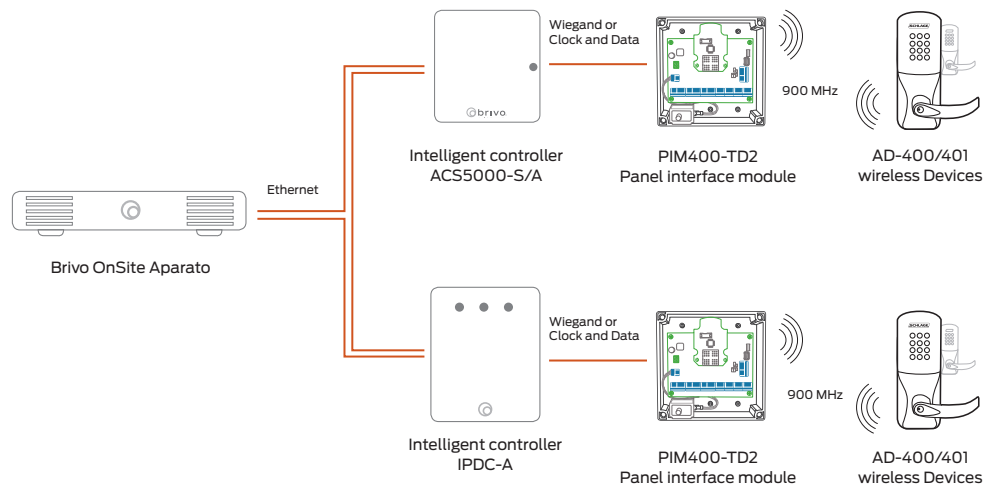
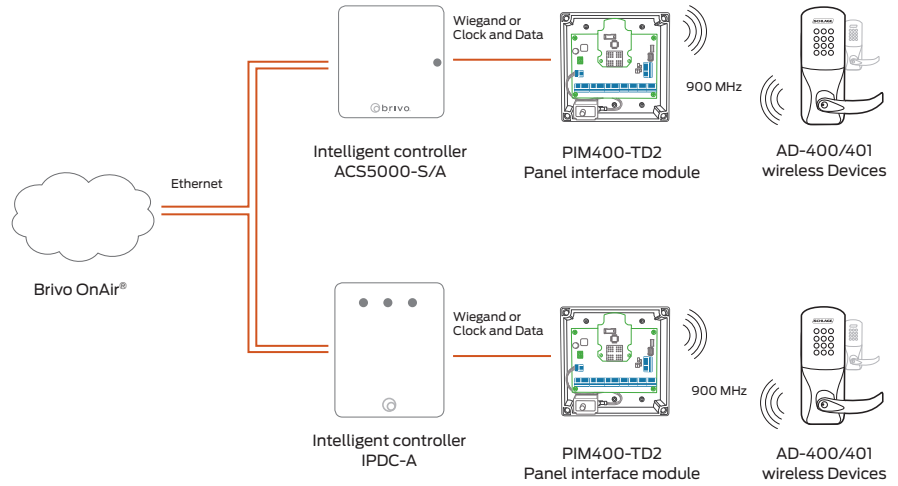
System Capabilities Summary

AD-400 Wireless:

- Communicates to the controller via PIM400-TD2(Wiegand or Clock & Data); supporting up to 2 devices per PIM400-TD2
- Secure 900 MHz wireless communication, AES-128 bit encrypted
- Real time access control and monitoring
- Powered by four (4) standard off-the-shelf AA batteries
- Patent pending wireless lockdown /unlock feature via PIM400-TD2 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400/401 via Wiegand with Brivo Systems

- Each PIM400-TD2 supports up to 2 AD-400/401 wireless lock
- Each Brivo Systems controller can support up to 30 AD-400/401 wireless locks per ACS5000-E or up to 2 per IPDC-E
- Each Brivo Systems 5000 controller can support up to 30 readers and 14 expansion boards
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



Note:

Please refer to AD-400, AD-401, PIM400-TD2, RLBD data sheets for complete AD Series specifications.

For additional information contact Brivo Systems: 1.866.MY.BRIVO or sales@brivo.com

System capabilities:

	AD-400/401 PIM400-TD2
Features	
Maximum number of readers supported by controllers	30/2
Maximum number of readers per PIM400	2
Maximum number of PIM400s per Wiegand port	1
Access control decision made by host or by lock database	Host
Remote Linking capability via Host	No
Readers - see supported card formats below	
Keypad only	Yes
Magnetic stripe card	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes
PIV & PIV-I card compatible ¹	Yes ¹
Card + PIN	Yes
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	No
Request to enter	Yes
Low battery status	Yes
Communication status: RF	No
Remote lockdown/unlock	Yes (<10 sec) ²
Deadbolt position	No
Interior push button	No
Lock functions	
Classroom/storeroom	Yes
Licensing	
	Please contact Brivo to determine licensing requirements.

Please contact Brivo Systems for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS 201 Compliant Option available: The AD-series can be used in applications which require approval by the US federal government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 data sheet for complete details. Contact Brivo to confirm they are able to support your FIPS 201 credential format.

² Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

NOTE: Brivo requires support for Reverse 64 bit, 75 and 200 bit applications

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

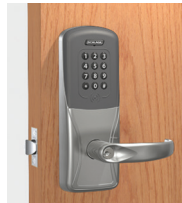
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



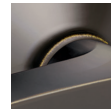
605
Bright brass



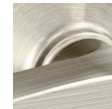
606
Satin brass



612
Satin bronze



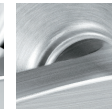
643e
Aged bronze



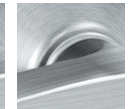
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005629, Rev. 09/17
www.allegion.com/us

For additional information contact Brivo Systems: 1.866.MY.BRIVO or sales@brivo.com



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and BadgePass™ Access Manager



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with BadgePass™ Access Manager to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

The BadgePass Platform offers a full suite of security and identity applications built on a single database including Access Control, Identity Manager, and Visitor Manager. The modular design of BadgePass makes it a perfect fit for virtually any application, no matter how large or small.

BadgePass Access Manager also supports AD Series locks allowing you to combine both lock platforms into a single solution.

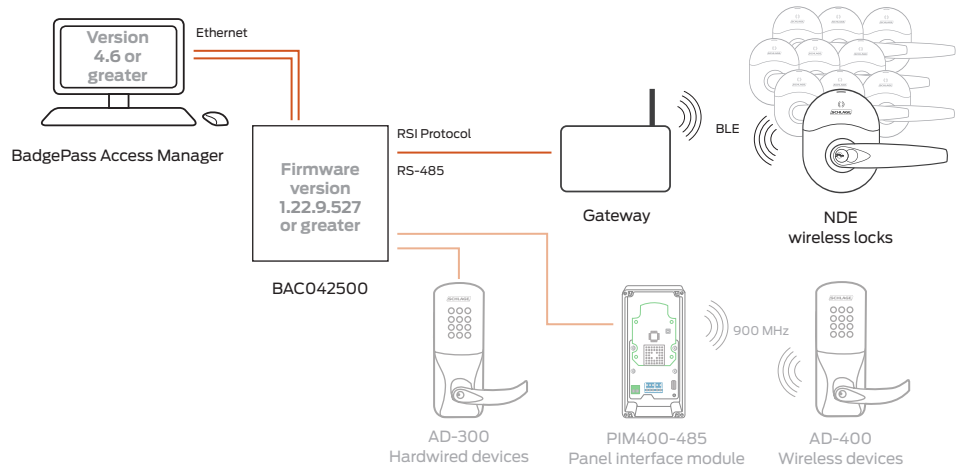
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with BadgePass Server and BAC042500

- BAC042500 supports up to 64 NDE locks total
- BAC042500 supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each BAC042500
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See BadgePass AD Series solution sheet for additional details.

NDE via EP1501 with BadgePass Server

- EP1501 supports up to 8 GWE Gateway and up to 17 NDE
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



¹ In order to have a UL Listed configuration a UL294.12VDC power supply must be used instead of PoE

Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE locks via Gateway (RS-485) with BACO42500	NDE locks via Gateway/EP1501
Features		
Maximum number of locks supported by controller	64	17
Maximum number of locks supported via network access	N/A	N/A
Maximum number of gateways per controller/Host	16	8
Maximum number of NDE locks per gateway	10	10
Access control decision made by Host software or by lock database	Host	Host
Remote linking capability via Host ¹	Yes	Yes
Update frequency	N/A	N/A
Schedules	Yes	Yes
Holiday	Yes	Yes
Credentials		
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	N/A	N/A
Request to enter	N/A	N/A
Low battery status	No	No
Communication Status BLE/RS-485	Yes	Yes
Remote lockdown/unlock	Yes (<5 sec)	Yes (<5 sec)
Interior push button	N/A	N/A
Lock functions		
Classroom/storeroom	Yes	Yes
Licensing		
Please contact BadgePass to determine licensing requirements		

¹ Can link using Host or Engage mobile app

Please contact BadgePass for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

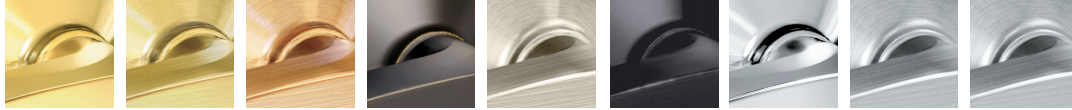
Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes

Standard cylinders shown, SFIC and FSIC also available.



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011289, Rev. 12/17
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and CS Access

cbord®



Overview

Schlage® NDE and LE locks with ENGAGE™ technology seamlessly integrate with CS Access to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

CBORD has incorporated two new features into the system, allowing for secure and convenient access utilizing a Smartphone as a credential to unlock NDE and LE locks. "Open MyDoor" is a method for an authorized person to unlock their door remotely through their phone. "MasterKey" is a method for a CBORD administrator to use their phone to unlock someone else's door. When this is done the "owner or inhabitant" of this room receives a text on their phone indicating that an authorized person has unlocked their door.

CS Gold also supports AD Series locks allowing you to combine both lock platforms into a single solution.

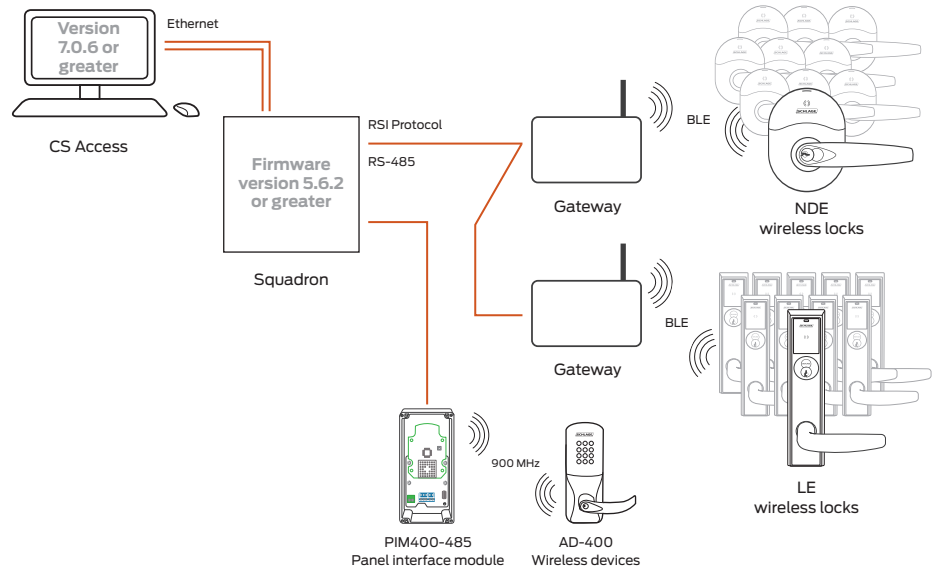
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with CS Access and Squadron

- Squadron supports up to 32 NDE/LE locks total
- Squadron supports a maximum of 6 gateways per RS-485 port
- There are 2 ports on each Squadron
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

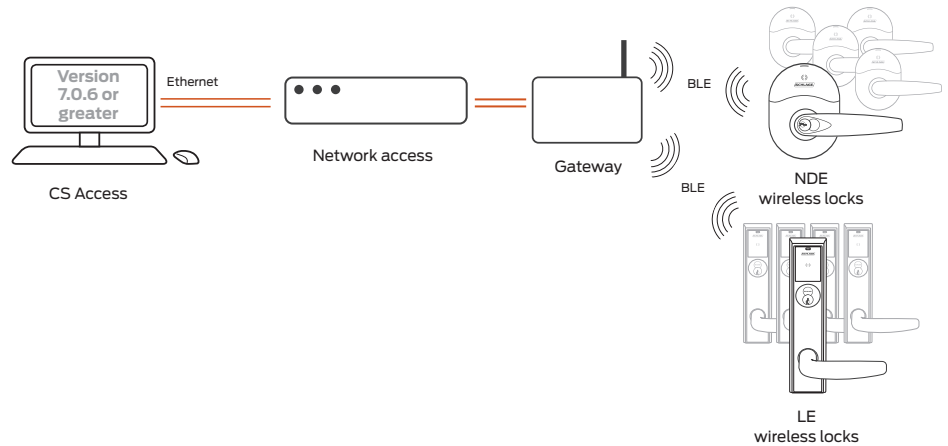
* Reference ENGAGE Gateway data sheet for additional details.



NDE/LE locks with Gateway via IP (PoE)

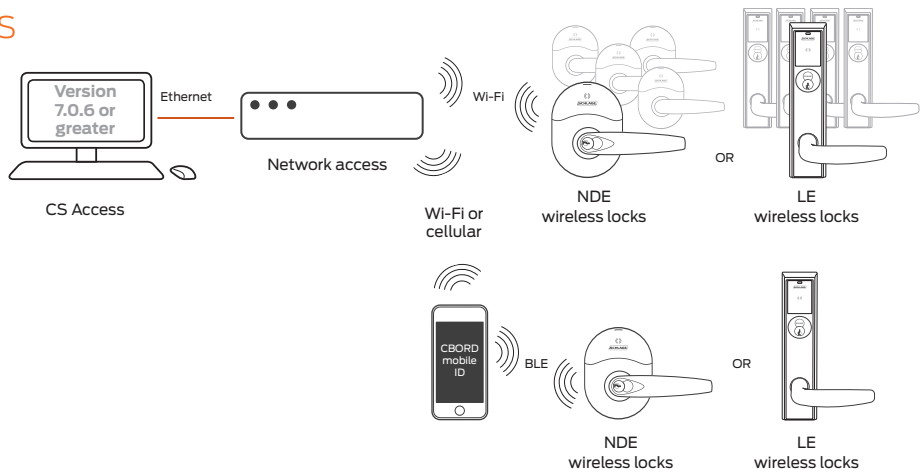
- CS Access supports unlimited NDE/LE locks total
- CS Access supports an unlimited number of gateways
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Advanced offline solutions

- CS Access support NDE/LE locks as a Wi-Fi offline solution



Note:

Please refer to LE and NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact CBORD's CS Access: 866.789.2977

System capabilities:

	NDE/LE locks via Gateway (RS-485)	NDE/LE locks with Gateway via IP	Advanced offline solutions
Features			
Maximum number of locks supported by controller	32	N/A	N/A
Maximum number of locks supported via network access	N/A	Unlimited	Unlimited
Maximum number of gateways per controller/Host	6 direct (up to 32/hubs)	Unlimited	N/A
Maximum number of NDE/LE locks per gateway	10	10	N/A
Access control decision made by Host software or by lock database	Host	Lock	Lock
Remote linking capability via Host	Yes	No	N/A
Update frequency	N/A	As determined by CS Access	Nightly
Schedules	N/A	Yes	Yes
Holiday	N/A	Yes	Yes
Credentials			
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes	Yes	Yes
PIV and PIV-I card compatible	N/A	N/A	N/A
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	N/A	N/A	N/A
Request to enter	N/A	N/A	N/A
Low battery status	Yes	Yes	Yes
Communication Status BLE/RS-485	Yes	N/A	N/A
Remote lockdown/unlock	Yes (<5 sec)	N/A	N/A
Interior push button	Yes LEMB, No NDE	No	No
Deadbolt position	Yes LEMB, No NDE	No	No
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Privacy - LE only	Yes	No	No
Licensing			
Please contact CBORD to determine licensing requirements			

CBORD mobile app:

	NDE/LE locks via Gateway (RS-485)	NDE/LE locks via Gateway (IP)	Advanced offline solutions
Features			
Platforms supported	iOS and Android	iOS and Android	iOS and Android
Open My Door	Yes	Yes	Yes
Master Key	Yes	Yes	Yes

¹ Only applies to Direct Wi-Fi locks and IP Gateway architectures

Please contact CBORD for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

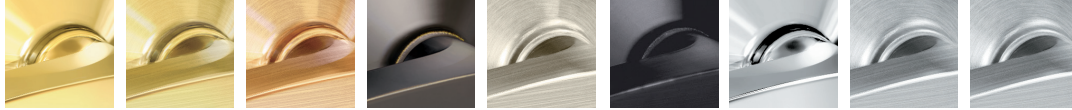
Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

For additional information contact CBORD's CS Access: 866.789.2977

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011082, Rev. 12/17
www.allegion.com/us



Integrated security solution

with AD-300 hardwired, AD-400 wireless devices and IS2000



Overview

Schlage AD Series locks seamlessly integrate with IS2000 to provide a cost effective and scalable access control solution to meet your security needs.

IS2000 has been installed in thousands of locations worldwide from government facilities, healthcare sites, manufacturing facilities, universities/schools, residential communities, telecommunication sites, airports, and many more. IS2000 scalable solution is the industry leading product for Physical Security Information Management (PSIM). It's modular design and easy to use interface has won several industry awards throughout the years.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

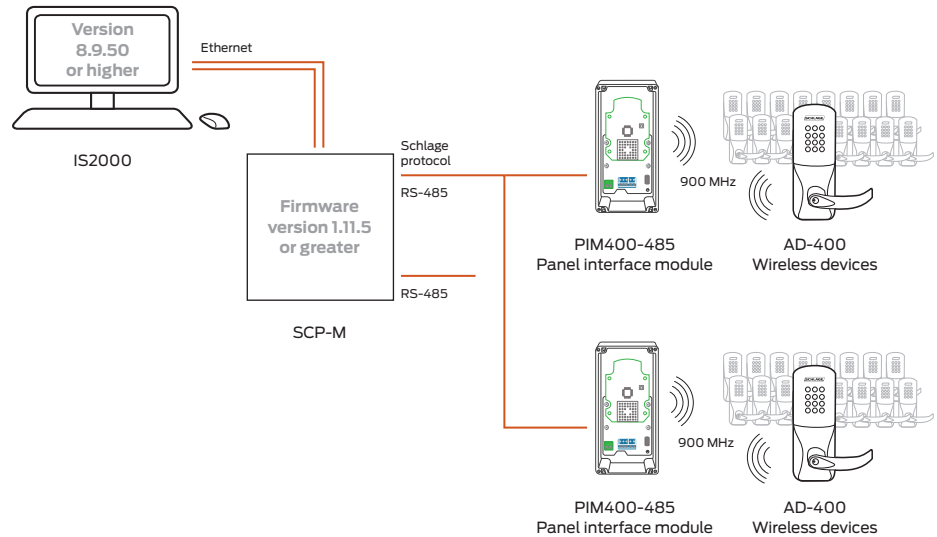
System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
 - IS2000 supports up to 8 AD-300 hardwired locks per RS485 port
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400-485
 - (in 10 seconds or less) preserves up to 2 year battery life
 - IS2000 supports up to 64 AD-400 wireless locks
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with IS2000 and SCP-M

- SCP-M supports up to 64 total locks
- SCP-M supports a maximum of 16 PIM400-485s
- PIM400-485 supports up to 16 AD-400 wireless devices
- Wireless range up to 200' in typical building construction, 1000' clear line of sight

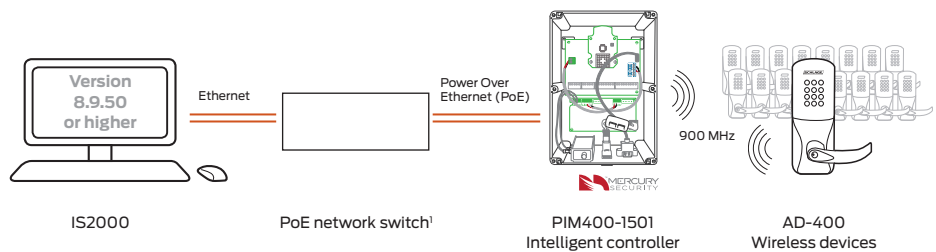
NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-400 via PIM400-1501 with IS2000

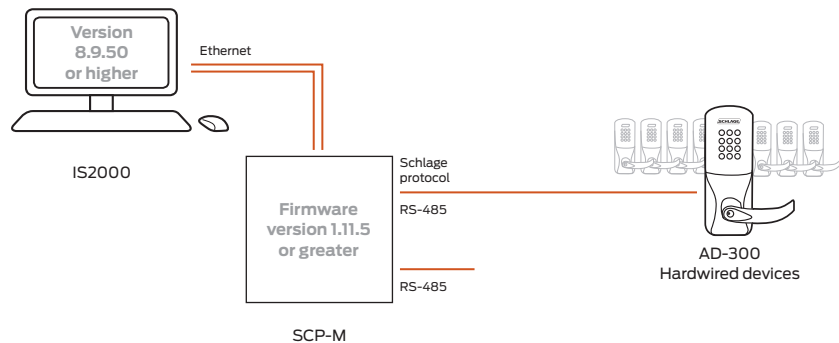
- PIM400-1501 supports up to 16 AD-400 wireless locks
- Wireless range Up to 200' in typical building construction, up to 1000' line of site

¹ In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300 via direct RS-485 connection with IS2000

- SCP-M supports a maximum of 16 AD-300 hardwired locks (8 per port)



Note:

Please refer to AD-400, PIM400-485, PIM400-1501, AD-300 data sheets for complete AD Series specifications. Please contact Imron for Wiegand options.

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-1501	AD-300 Direct RS-485
Features			
Maximum Number of readers supported by controller/PIM	64	16	64
Maximum Number of readers per PIM400	16	16	N/A
Maximum Number of PIM400s and/or AD-300s per RS-485 Port	Up to 8	N/A	Up to 8
Access control decision made by host software or by lock database	Host	Host	Host
Remote Linking capability via Host	No	No	N/A
Readers - see supported card formats below			
Keypad only	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes
Request to enter	No	No	No
Low battery status	Yes	Yes	N/A
Communication status: RF/RS-485	Yes / Yes	Yes / Yes	Yes/Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes
Deadbolt position	No	No	No
Interior push button	No	No	No
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Licensing			
Please contact Imron to determine licensing requirements.			

Please contact Imron for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Imron to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

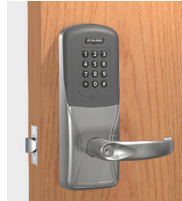
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



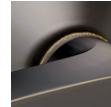
605
Bright brass



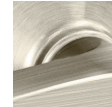
606
Satin brass



612
Satin bronze



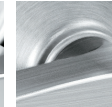
643e
Aged bronze



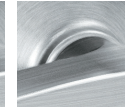
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005641, Rev. 09



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Mavin Security Management Platform



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with Mavin Security Management Platform to provide a cost effective and scalable access control solution to meet your security needs.

Mavin's Security Management Platform is built on cutting-edge software and hardware technology, leveraging the expertise of the industry's best manufacturers, system integrators and end users. Mavin's open architected products seamlessly integrate modules for access control, people and credential management, alarm monitoring, action and event scheduling, front desk identity verification, and real-time device status monitoring.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

Mavin Security Management Platform also supports AD Series locks allowing you to combine both lock platforms into a single solution.

System Capabilities Summary

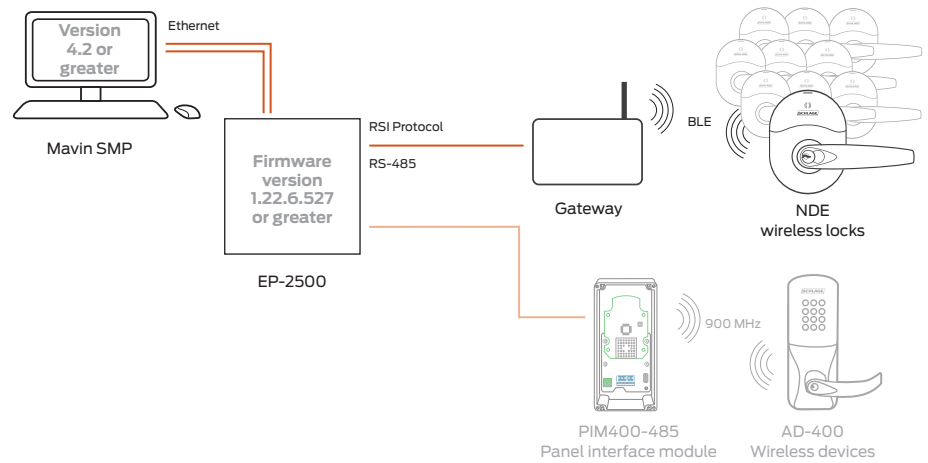
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with Mavin SMP and EP-2500

- EP-2500 supports up to 64 NDE locks total
- EP-2500 supports a maximum of 8 gateways per RS-485 port
- There are 2 ports on each EP-2500
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Mavin SMP AD Series solution sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Mavin: 1.866.680.8346

System capabilities:

	NDE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	64
Maximum number of locks supported via network access ¹	N/A
Maximum number of gateways per controller/Host	16
Maximum number of NDE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	No
Update frequency	N/A
Schedules	Yes
Holidays	Yes
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	No
Mortise deadbolt status	N/A
Lock functions	
Classroom/storeroom	Yes
Licensing	
Please contact Mavin to determine licensing requirements	

¹ Only applies to Direct Wi-Fi locks and IP Gateway architectures

Please contact Mavin for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

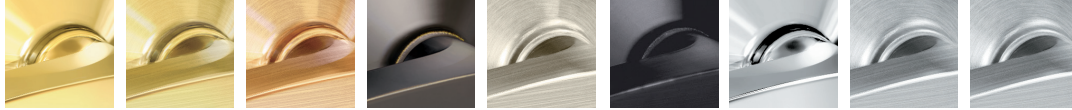
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011443, Rev. 12/17
www.allegion.com/us



Wiegand security solution

with AD-400 wireless devices,
AD-300 hardwired devices
and eAXxess



Overview

Schlage AD Series locks seamlessly integrate with MAXXESS Systems to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

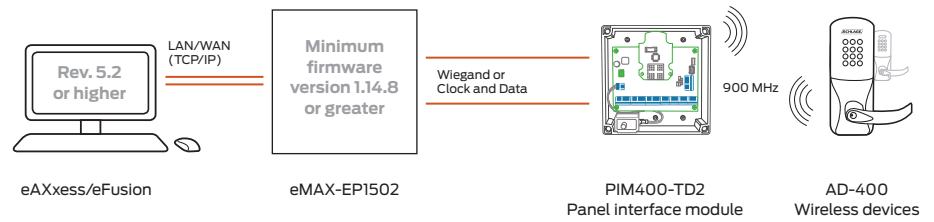
The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400-485 (in 10 seconds or less) preserves up to 2 year battery life
- eAXxess can support: 2 AD-400 locks via the EP1502 controller
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400)
 - Wireless Reader Interface (WRI400)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via Wiegand with eMAX-EP1502

- eMAX-EP1502 supports up to 2 AD-400 locks total via 1 or 2 PIM400-TD2
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



AD-300 via Wiegand with eMAX-EP1502

- eMAX-EP1502 supports up to 2 AD-300 locks total via 1 or 2 PIB300-2D



Note:

Please refer to AD-300, AD-400, PIB300-2D, PIM400-TD2, WPR400, and WRI400 data sheets for complete AD Series Specifications

For additional information contact MAXXESS at: 1.800.842.0221 or sales@maxxess-systems.com

System capabilities:

	AD-400 PIM400-TD2 (eMAX -EP1502)	AD-400 PIB300-2D (eMAX-EP1502)
Features		
Maximum number of readers supported by controller/PIM	2	2
Maximum number of readers per PIM400	2	2
Maximum number of PIM400s/PIB300s per port	Up to 2	Up to 2
Access control decision made by host or by lock database	Host	Host
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible	No	No
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	No	No
Request to enter	No	No
Low battery status	No	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes
Remote lockdown/unlock	Yes (<10 sec) ¹	Yes
Deadbolt position	No	No
Interior push button	No	No
Lock functions		
Classroom/storeroom	Yes	Yes

Please contact
MAXXESS for additional
details on features and
credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™
Cloud-based Web and Mobile Applications Data Sheet.

¹ Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

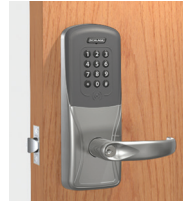
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems.

Mortise Lock (AD-400-MS)



Cylindrical Lock (AD-400-CY)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Cylinder compatibility

Cylinder compatibility	Full size key-in-lever 6 pin	Full size key-in-lever 7 pin	FSIC 6 pin	SFIC 6 and 7 pin
Schlage	●		●	●
Falcon®	▲	■		▲
Sargent® (10L + 11L full size)	▲		▲	▲
Corbin Russwin®			▲ ¹	▲
Yale® (includes Medeco 31*0100 FSIC)			▲	▲
Best®				▲

● = with cylinder or less cylinder options

■ = less cylinder, only with Sparta and Rhodes levers

▲ = less cylinder only

¹ JDC07 Corbin Russwin 7 pin cylinder is available in Rhodes, Sparta and Tubular

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



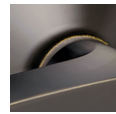
605 Bright brass



606 Satin brass

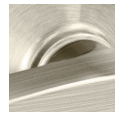


612 Satin bronze



643e Aged bronze

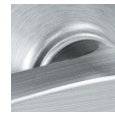
Cool tone finishes



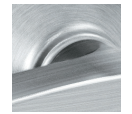
619 Satin nickel



625 Bright chrome



626 Satin chrome



626AM Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009832, Rev. 09/17
www.allegion.com/us

Technology alliances

Collaborative solutions and uncompromised security

Our alliance partnerships are built on a commitment to grow with our customers as their needs change, while delivering the right security for every application. Through our Technology Alliance Program we develop collaborative relationships with other companies in order to provide a broader range of products and services that can help you solve your customers' security challenges. And when a customer's requirements for their Schlage credential extend beyond access control we can help fill their needs through our Technology Alliances.



Allegion Technology Alliances: Collaborative solutions and uncompromised security

Badge printing



Biometrics - Facial recognition



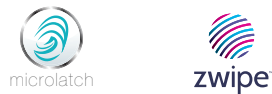
Biometrics - Fingerprint



Biometrics - Iris



Biometrics - Mobile



Campus solutions



Converged access



Crisis lockdown alert system status



Identity management and badge printing



Key and asset cabinets



Logical access



Logical access - Keyboards



Long-range vehicle access



TagMaster

North America, Inc.



Mobile verification



Point of Sale (POS)



Rack server locking systems



Time and attendance



Turnstiles



Ultra long-range RFID



Vandal resistant readers



More Technology Alliances, more information

We are continually building relationships that expand our customer's ability to use a single credential for many applications. For a current list of our Technology Alliances and to find out more about their Allegion supported offering, visit our web site at:

<http://us.allegion.com/en/home/alliances.html>

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009916, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400 wireless devices and AMAG Symmetry



Overview

Schlage AD-400 wireless devices seamlessly integrate with AMAG's Symmetry Security Management System to provide secure and cost effective access control for any organization.

AMAG Symmetry provides a complete solution for building security including Identity Management, Access Control, Integrated Video Management, and Alarm and Event Management. The addition of Schlage AD-400 locks to the wide range of integrated security options for Symmetry offers the ability to expand the access control system to a much wider range of doors including meeting rooms, individual offices, and closets. In an education environment AD-400 locks are particularly suited to protection of student accommodation.

Symmetry is a scalable solution which is suitable for organizations of all sizes, from small single sites all the way up to the largest international organizations requiring a single high-security security solution across the enterprise.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including realtime monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

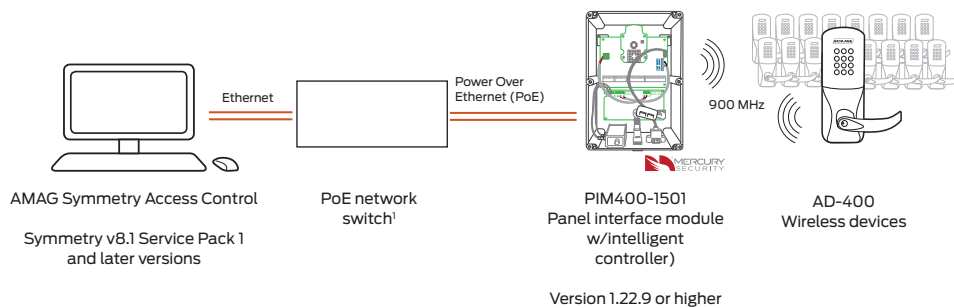
System Capabilities Summary

- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown /unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via PIM400-1501

- PIM400-1501 supports up to 16 AD-400s
- Wireless range up to 200' in building construction, up to 1000' line of sight

¹ In order to have a UL Listed configuration a UL294 12VDC power supply must be used



Note:

Please refer to AD-400, PIM400-485, PIM400-1501, data sheets for complete AD Series Specifications

For additional information contact AMAG: sales@amag.com or amag.com

System capabilities:

AD-400
PIM400-1501

Features

Maximum number of readers supported by controller/PIM	16
Maximum number of readers per PIM400	16
Maximum number of PIM400s per RS-485 port	1
Access control decision made by host or by lock database	Host
Remote Linking capability via Host	No

Readers - see supported card formats below

Keypad only	No
Magnetic stripe card	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes
PIV and PIV-I card compatible	Yes (75 bit only)
Card + PIN	No

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	No
Request to enter	No
Low battery status	Low battery only, no critical battery
Communication status: RF/RS-485	Yes/Yes
Remote lockdown/unlock	No
Deadbolt position	No
Interior push button	No

Lock functions

Classroom/storeroom	Yes
Office	No
Privacy	No
Apartment	No

Licensing

Please contact AMAG to determine licensing requirements

Please contact AMAG for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible I

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

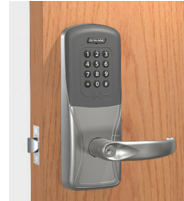
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400)



Cylindrical Lock (AD-400)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



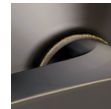
605
Bright brass



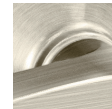
606
Satin brass



612
Satin bronze



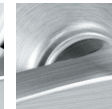
643e
Aged bronze



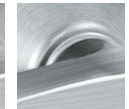
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin and Falcon are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011459, Rev. 09/17
www.allegion.com/us



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and Keyscan Aurora



Overview

Schlage® NDE locks with ENGAGE™ technology seamlessly integrate with Keyscan Aurora to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

The Keyscan CA150WLKTN is a kit that includes 1 CA150WLN and 1 Allegion gateway. The Keyscan CA150WLN is Keyscan's PoE equipped access control unit designed for this wireless application. This ACU interface receives and authenticates credential data transmitted from the Gateway GWE and responds with access granted or denied based on the permissions criteria set in Keyscan Aurora access control management software. A condensed size unit, the Keyscan CA150WLN can be installed virtually anywhere. It is easily connected to your LAN/WAN network and can be powered using PoE (where available). If PoE is not available a 12VDC input option is available.

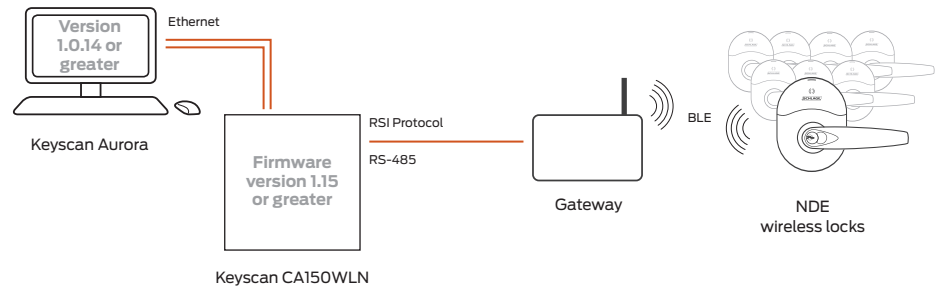
System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- NDE lock has ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE locks via Gateway (RS-485) with Keyscan Aurora and Keyscan CA150WLKTN kit

- Keyscan CA150WLKTN kit supports up to 8 NDE locks total
- Keyscan CA150WLKTN supports 1 gateway
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.



Note:

Please refer to NDE locks and ENGAGE Gateway data sheets for complete specifications.

For additional information contact Keyscan: keyscan.ca or 888-539-7226

System capabilities:

NDE locks via Gateway (RS-485)

Features

Maximum number of locks supported by controller	8
Maximum number of locks supported via network access	Unlimited CA150WLN's per network
Maximum number of gateways per controller/host	1
Maximum number of NDE locks per gateway	8
Access control decision made by Host software control or by lock database	CA150WLN control
Remote linking capability via Host	Yes, manually at CA150WLN control
Update Frequency	Real time
Schedules	Yes
Holidays	Yes

Credentials

Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A

Status monitors

Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec) via software
Interior push button	N/A

Lock functions

Classroom/storeroom	Yes
---------------------	-----

Licensing

Keyscan does not have any licensing requirements but users must have a licensed and running version of Keyscan Aurora software V1.0.14 or greater

Please contact Keyscan for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

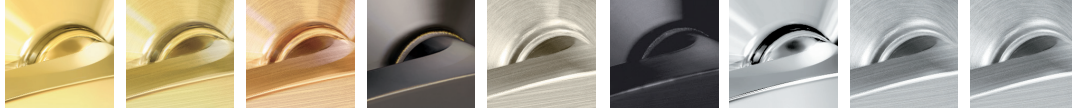
Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1. Not supported by Keyscan

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011286, Rev. 12/17
www.allegion.com/us



Integrated security solution

with AD-300 hardwired, AD-400 wireless devices and BadgePass™ Access Manager



Overview

Schlage AD Series locks seamlessly integrate with BadgePass™ to provide a cost effective and scalable access control solution to meet your security needs.

The BadgePass™ Platform offers a full suite of security and identity applications built on a single database including Access Control, Identity Manager, and Visitor Manager and Time Manager. The modular design of BadgePass™ makes it a perfect fit for virtually any application, no matter how large or small.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

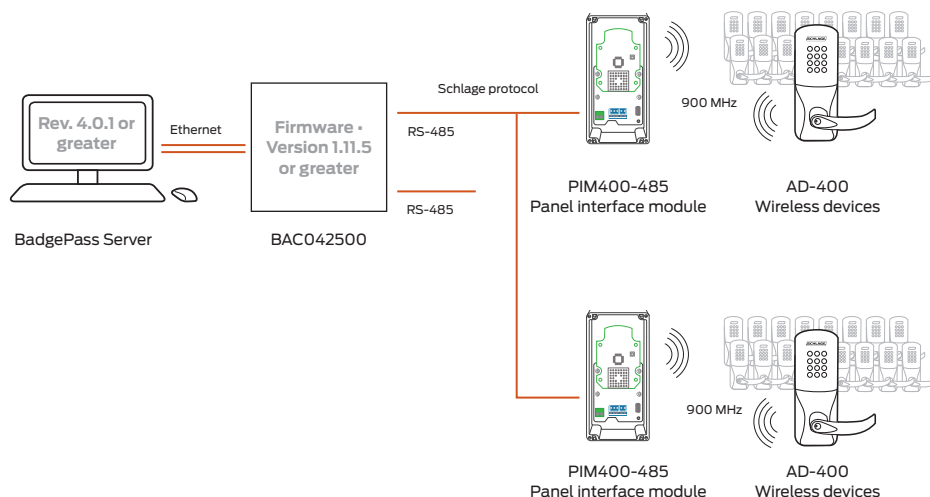
The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-300 Hardwired
 - Field configurable fail safe/fail secure
- AD-400 Wireless
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485 with BadgePass Server and BAC042500

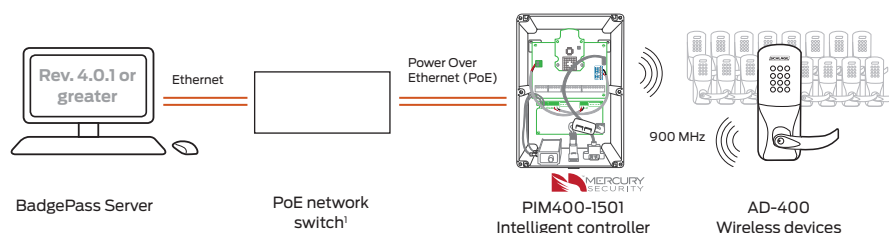
- BAC042500 supports up to 64 total locks
- BAC042500 supports a maximum of 8 PIM400-485 per RS-485 port. There are 2 RS485 ports on each BAC042500
- Although not specifically shown, the BAC042500 can support both the AD-300s and AD-400s in the same system on a common port. You are limited to 8 PIM400-485 and AD-300 combined per RS485 port and a maximum of 64 AD locks per BAC042500.
- BadgePass Server also supports the PIM400-TD2 for the AD-400 wireless applications. The PIM400-TD2 is limited to two locks. FIPS201 compliant Wiegand options are available with specific required components.
- Wireless range up to 200' in typical building construction, up to 1000' line of sight



AD-400 via PIM400-1501 with BadgePass Server

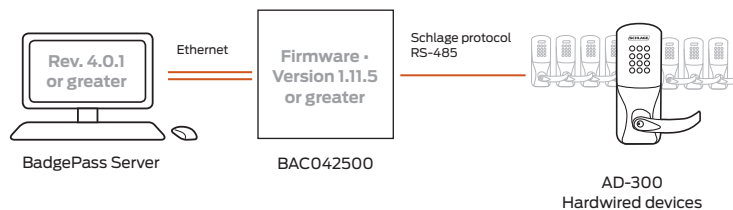
- PIM400-1501 supports up to 16 AD-400s
- Wireless range up to 200' in typical building construction, up to 1000' line of sight

¹ In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300 with BadgePass Server BAC042500

- BAC042500 supports a maximum of 16 AD-300 locks (8 per port)
- Although not specifically shown, the BAC042500 can support both the AD-300s and AD-400s in the same system on a common port. You are limited to 8 PIM400-485 and AD-300 combined per RS485 port and a maximum of 64 AD locks per BAC042500.
- BadgePass Server also supports the PIB300-2D for AD-300 hardwired applications. The PIB300-2D is limited to two locks. FIPS201 compliant Wiegand options are available with specific required components.



Note:

Please refer to AD-400, PIM400-485, PIM400-1501, AD-300/PIB300-2D data sheets for complete AD-Series specifications

System capabilities:

	AD-400 PIM400-485	AD-400 PIM400-1501	AD-300 Direct RS485
Features			
Maximum number of readers supported by controller/PIM	64	16	16
Maximum number of readers per PIM400	16	16	N/A
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	Up to 8
Access control decision made by host or by lock database	Host	Host	Host
Remote Linking capability via Host	No	No	N/A
Readers - see supported card formats below			
Keypad only	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes
Status monitors			
Request to exit	Yes	Yes	Yes
Door position	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes
Request to enter	No	No	No
Low battery status	Yes	Yes	N/A
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes
Remote lockdown/unlock ²	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes (<10 sec)
Deadbolt position	No	No	No
Interior push button	No	No	No
Lock functions			
Classroom/storeroom	Yes	Yes	Yes
Licensing			
Please contact BadgePass to determine licensing requirements.			

Please contact BadgePass Inc. for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader. The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact BadgePass to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

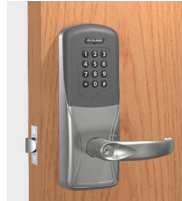
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



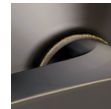
605
Bright brass



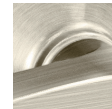
606
Satin brass



612
Satin bronze



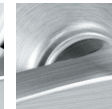
643e
Aged bronze



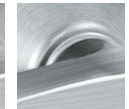
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005611, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-400 wireless devices,
AD-300 hardwired locks and
eAXxess/eFusion



Overview

Schlage AD Series hardwired and wireless locks seamlessly integrate with MAXCESS Systems to provide a cost effective and scalable access control solution.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications, the Schlage AD Series wireless locks and device, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

AD Series wireless locks combine the components typically found around the door, such as the door position switch and the request-to-exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

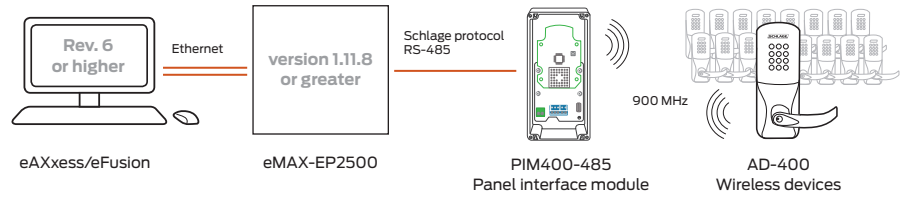
System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
- AD-400 wireless:
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Lenel OnGuard supports Remote Linking of AD-400 wireless locks
- Patent pending wireless lockdown/unlock feature via PIM400 (10 seconds or less preserves up to 2 year battery life)
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400)
 - Eliminate running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 via RS-485

- eMAX-EP2500 supports up to 64 AD Series locks total
- eMAX-EP2500 supports a maximum of 8 PIM400-485s per RS-485 port
There are 2 RS-485 ports
- eMAX-EP2500 support up to 8 PIM400-485s and/or AD-300s per RS-485 port
- Wireless range Up to 200' in building construction, up to 1000' line of site

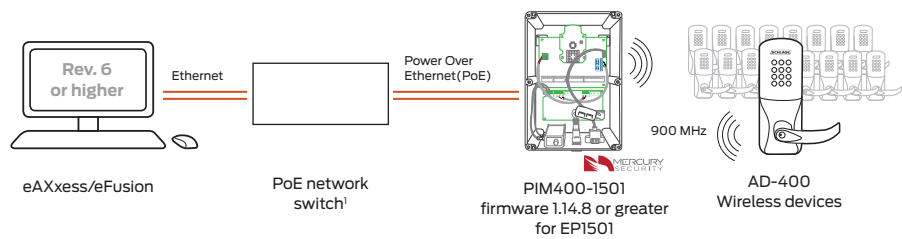
NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-400 via PIM400-1501

- PIM400-1501 supports up to 16 AD-400 devices
- Wireless range Up to 200' in building construction, up to 1000' line of site

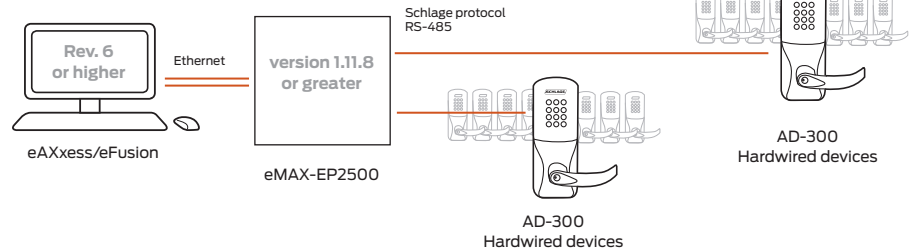
1 In order to have a UL Listed configuration a UL294 12VDC power supply must be used instead of PoE



AD-300 via RS-485 with eMAX-EP2500

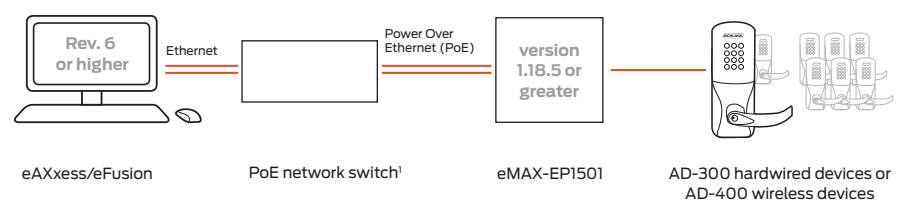
- eMAX-EP2500 supports up to 16 AD-300 locks (up to 8 AD-300 locks on each RS-485 port)

NOTE: Although not specifically shown, both AD-300s and AD-400s can be managed on a common port



AD-300 and AD-400 via RS-485 with eMAX-EP1501

- eMAX-EP1501 can control a total of 8 AD-300 or 16 AD-400 via up to 8 PIM400-485 on a common RS-485 data line
- eMAX-EP1501 can PoE (Power Over Ethernet) 2 AD-300. Remaining 6 AD-300 will be powered from an external 12/24VDC power supply.



Note: For performance reasons, it is recommended that no more than 8 PIMs be connected to a single RS-485 communication port.

PIM communication addresses must be unique within each communication port. Reader/WAPM addresses must be unique within communication ports.

Reader WAPM address 170 must not be used.

Note:

Please refer to AD-300, AD-400, PIM400-485, PIM400-TD2, PIM400-1501, WPR400, and WRI400 data sheets for complete AD Series specifications

System capabilities:

	AD-400 PIM400-485 eMAX-EP2500	AD-400 PIM400-1501	AD-300 Direct RS-485 eMAX-EP2500	AD-300 eMAX-EP1501	AD-400 eMAX-EP1501
--	-------------------------------------	-----------------------	--	-----------------------	-----------------------

Features

Maximum number of readers supported by controller/PIM	64	16	16	8 AD-300 (2 PoE and up to 6 with separate power supply)	16
Maximum number of readers per PIM400	16	16	N/A	N/A	16
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 8	N/A	Up to 8	Up to 8	Up to 8
Access control decision made by host or by lock database	Host	Host	Host	Host	Host
Remote Linking capability via Host	No	No	N/A	N/A	No

Readers - see supported card formats below

Keypad only	Yes	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes	Yes	Yes

Status monitors

Request to exit	Yes	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes	Yes
Request to enter	No	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A	Yes
Communication status: RF/RS-485	Yes /Yes	Yes/Yes	Yes	Yes	Yes /Yes
Remote lockdown/unlock	Yes (<10 sec) ²	Yes (<10 sec) ²	Yes	Yes	Yes (<10 sec) ²
Deadbolt position	No	No	No	No	No
Interior push button	No	No	No	No	No

Lock functions

Classroom/storeroom	Yes	Yes	Yes	Yes	Yes
---------------------	-----	-----	-----	-----	-----

Please contact Maxxess for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Maxxess to confirm they are able to support your FIPS 201-1 credential format.

² For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

- KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

- KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

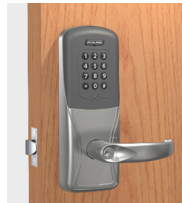
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400)



Cylindrical Lock (AD-400)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



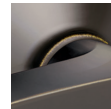
605
Bright brass



606
Satin brass

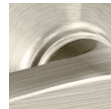


612
Satin bronze



643e
Aged bronze

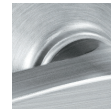
Cool tone finishes



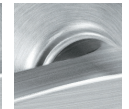
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005632, Rev. 09/17
www.allegion.com/us

For additional information contact MAXXESS: 1.800.842.0221 or sales@maxxess-systems.com

Emergency exit doors

Education solutions

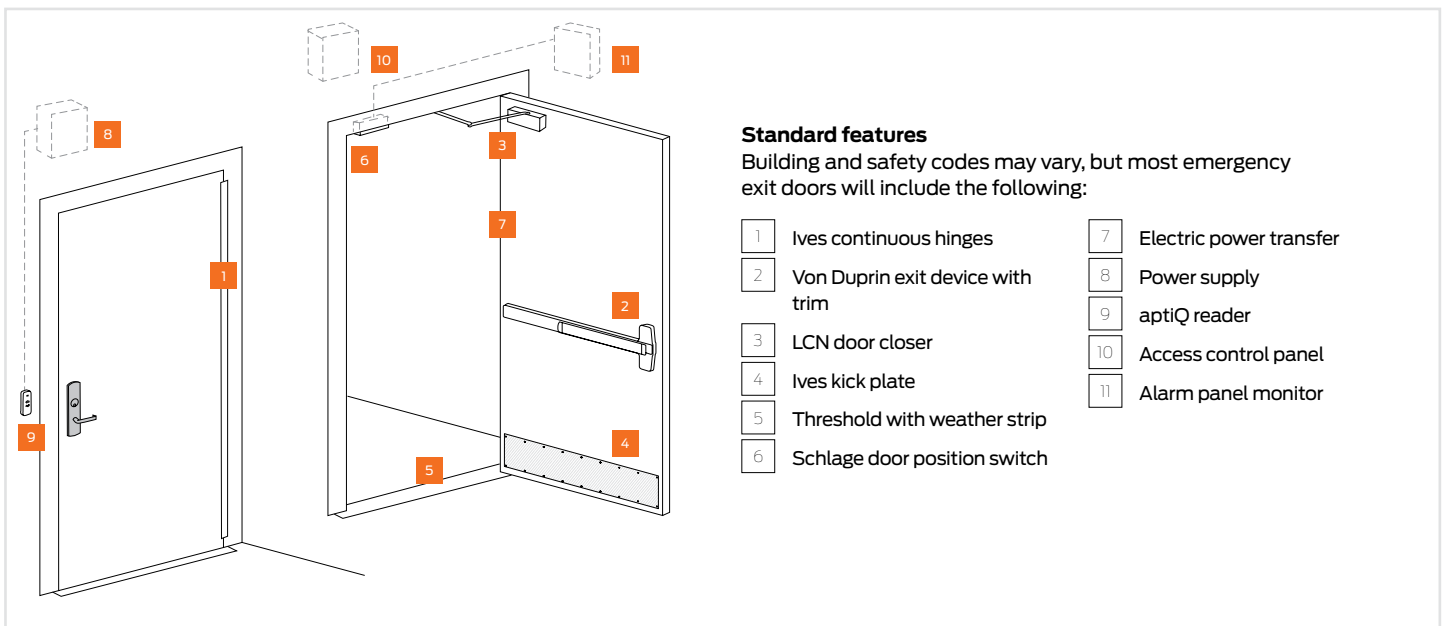


Perimeter emergency exits must allow for free egress at all times. Yet, as exterior doors they also serve as critical points for maintaining building security.

Emergency exits must meet all building codes, as well as ADA and fire and life safety requirements.

Emergency exit door operational requirements:

- Door is normally locked
- Access is gained by a valid credential
- Free egress is available at all times



Standard features

Building and safety codes may vary, but most emergency exit doors will include the following:

- | | |
|------------------------------------|---------------------------|
| 1 Ives continuous hinges | 7 Electric power transfer |
| 2 Von Duprin exit device with trim | 8 Power supply |
| 3 LCN door closer | 9 aptiQ reader |
| 4 Ives kick plate | 10 Access control panel |
| 5 Threshold with weather strip | 11 Alarm panel monitor |
| 6 Schlage door position switch | |

Innovative solutions for emergency exit doors

Von Duprin and LCN products are designed to perform flawlessly in any setting and are backed by the best after-sales service in the business. It's this commitment to design, performance and technology that ensures you can stand behind our products too.

Von Duprin® PS900 Series

- The PS914 is designed with high in rush current for powering electrified panic devices, and includes a constant output rating at both 12v and 24v settings, universal 120 VAC to 240 VAC input, and a new fire alarm interface.
- Installation is simplified with the PS914 using a flat mounting design and polarized locking connectors for option boards.
- The Von Duprin PS900 Series offers a wide breath of power supplies and accessories for enhanced flexibility and functionality.

Von Duprin® exit devices

- For over 100 years Von Duprin has set the standard for quality and innovation in the world of exit devices.
- As inventor of the panic bar, Von Duprin has a long-standing history as a leader in quality, durability and security with a wide range of exit devices and outside trim operations.

LCN® door closers

- In openings that are subject to high use and abuse, it's all important—fire and life safety, security, ADA accessibility and design.
- LCN closers are the toughest, smoothest and most reliable door closers in the business.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Start
with
Allegion

Call **877-671-7011**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, grant funding or seamless integration with your one card system

Visit **www.allegion.com/us/industries/education**

- Access our online security and safety self-assessment tools
- Find information about our products and services
- Review case histories about the importance of fire and life safety, including the story of the historic fire that led to the invention of the panic bar exit device



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
005515, Rev. 05/14
www.allegion.com/us



Integrated security solution

with NDE wireless locks featuring ENGAGE™ technology and bits™



Overview

bits™ Hosted Access Control integrates flawlessly with the Schlage NDE lock to provide a cost effective and scalable access control solution so meet your security needs.

The Schlage NDE wireless lock with ENGAGE technology is designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces with a cylindrical door prep.

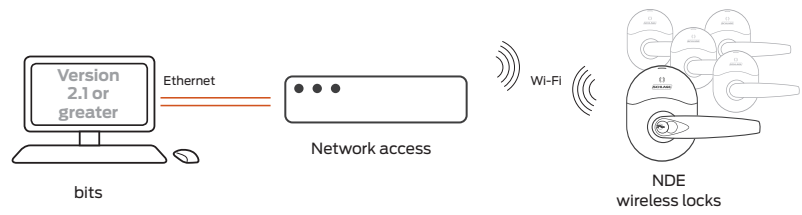
bits is a sophisticated access control software that integrates with the Engage NDE lockset. bits converts an unlimited number of the Stand Alone locks to an online Enterprise Networked Access Control system via WiFi lock. bits communicates directly over WiFi to the lockset requiring no additional hardware. Cloud based or Server based Software features allows the End User to manage and administer one or multiple site locations. Web based Software is accessible remotely from anywhere in the world via secure encrypted internet. Key Management - Access cards can be turned on or off at the click of a button eliminating rekeying of locks and costly key replacement due to employee turnover to lost or stolen keys.

System Capabilities Summary

- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function
- Cylindrical chassis
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

Advanced offline solutions

- bits supports an unlimited number of NDE locks



Note:

Please refer to NDE lock data sheet for complete specifications.

For additional information contact bits@idnacme.com or 888.840.2487

System capabilities:

	Advanced offline solutions
Features	
Maximum number of locks supported by controller	N/A
Maximum number of locks supported via network access	Unlimited
Maximum number of gateways per controller/Host	N/A
Maximum number of NDE locks per gateway	N/A
Access control decision made by Host software or by lock database	Lock
Remote linking capability via Host	N/A
Update frequency	N/A
Schedules	Yes
Holiday	Yes
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	N/A
Remote lockdown/unlock	No
Interior push button	N/A
Mortise deadbolt status	N/A
Lock functions	
Classroom/storeroom	Yes
Licensing	
Please contact bits to determine licensing requirements	

Please contact bits for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

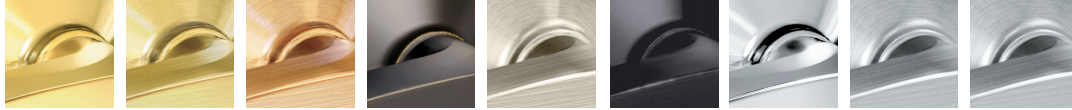
Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes

Standard cylinders shown, SFIC and FSIC also available.



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)



06/Rhodes (RHO)



07/Athens (ATH)



17/Sparta (SPA)



M81/Boardwalk (BRK)*



M52/Broadway (BRW)*



Latitude (LAT)*



Longitude (LON)*



Omega (OME)

*Available Q1 2018.

Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011574, Rev. 12/17
www.allegion.com/us



Wiegand access control solution

Paxton Net2 with Wireless AD-400 electronic locks



Overview

Schlage AD Series locks seamlessly integrate with Paxton Net2 software to provide a cost effective and scalable access control solution to meet your security needs.

The Paxton Net2 Access Control platform is a user-friendly and flexible IP networked solution, designed to make the implementation and management of building security incredibly simple, but effective. Net2 comes standard with features such as CCTV Integration, card badge designer and burglar alarm integration. Paxton offers a five year hardware warranty for the Net2 Box controller that reflects their total confidence in their products.

Schlage AD-Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD-Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

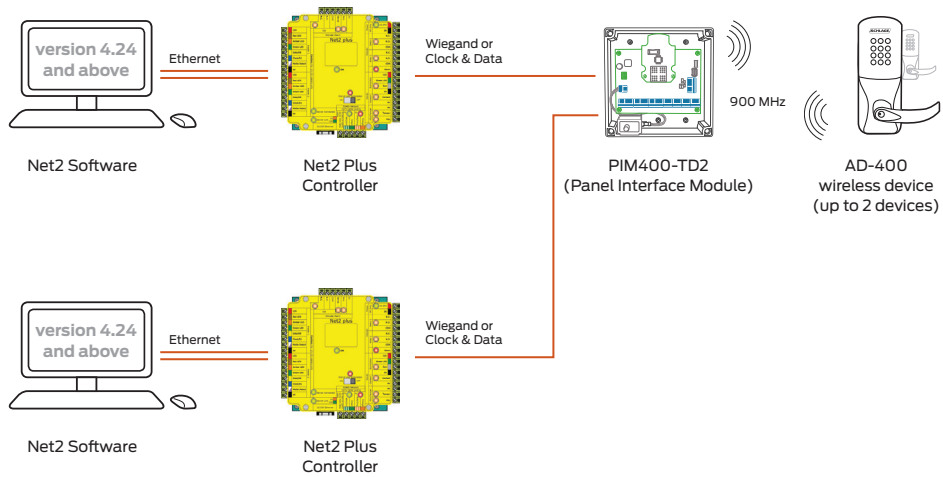
The AD-Series is available in wireless configurations to suit the requirements of the facility. AD-Series wireless locks provide many of the key benefits of a hardwired system including realtime monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD-Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

- AD-400 wireless applications:
 - Communicates to the controller via PIM400-TD2 (Wiegand or Clock & Data); each supports up to 2 devices
 - 900 MHz communication between AD-400 and PIM400 for secure, AES-128 bit encrypted transmission
 - Patent-pending wireless lockdown feature (10 seconds or less) preserves up to 2 year battery life
- AD Series available with seven reader options and three chassis options shown on page 4
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

AD-400 Wiegand solution

- Each Net2 Plus supports up to 1 wireless AD lock total
- Each PIM400-TD2 can support up to 2 AD-400 locks
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



Note:

Please refer to AD-400 and PIM400-TD2 data sheets for complete AD Series specifications

For additional information contact Paxton: salesUS@paxton-access.com or 877.438.7298

Net2 Plus system capabilities:

	AD-400 PIM400-TD2
Features	
Maximum number of readers supported by controller/PIM	2
Maximum number of readers per PIM400	Up to 2
Maximum number of PIM400s per RS-485 Port	N/A
Access control decision made by	Net2 Plus Controller
Remote Linking capability via Host	No
Readers - see supported card formats below	
Keypad only	Yes (up to 8 digits)
Magnetic stripe card	Yes
Multi-technology - 125 khz proximity and 13.56 MHz smart card	Yes
PIV & PIV-I card compatible	No
Card + PIN	Yes (up to 8 digits)
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	No
Request to enter	No
Low battery status	No
Communication status	No
Remote lockdown/unlock	Yes (<10 sec)
Deadbolt position	No
Interior push button	No
Lock functions	
Classroom/storeroom	Yes
Licensing	Please contact Paxton to determine licensing requirements.

Please contact Paxton for additional details on features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASl®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration via SUS.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

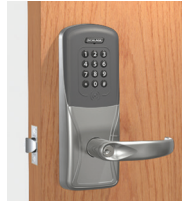
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-400)



Cylindrical Lock (AD-400)



Exit Device Trim (AD-400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



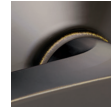
605
Bright brass



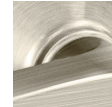
606
Satin brass



612
Satin bronze



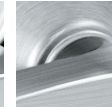
643e
Aged bronze



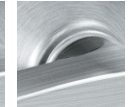
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



ALLEGION™

© 2017 Allegion
010157, Rev. 09 /17
www.allegion.com/us

For additional information contact Paxton: salesUS@paxton-access.com or 877.438.7298



Wiegand security solution

with AD-300/301 hardwired, AD-400/401 wireless devices and Cisco Physical Access Control



Overview

Schlage AD Series locks seamlessly integrate with Cisco Physical Access Control to provide a cost effective and scalable access control solution to meet your security needs.

Cisco Physical Access Control is a comprehensive solution that provides Electronic Access Control (EAC) using the IP network. The solution consists of hardware and software products and is modular, scalable, and easy to install. It allows any number of doors to be managed using the IP network.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

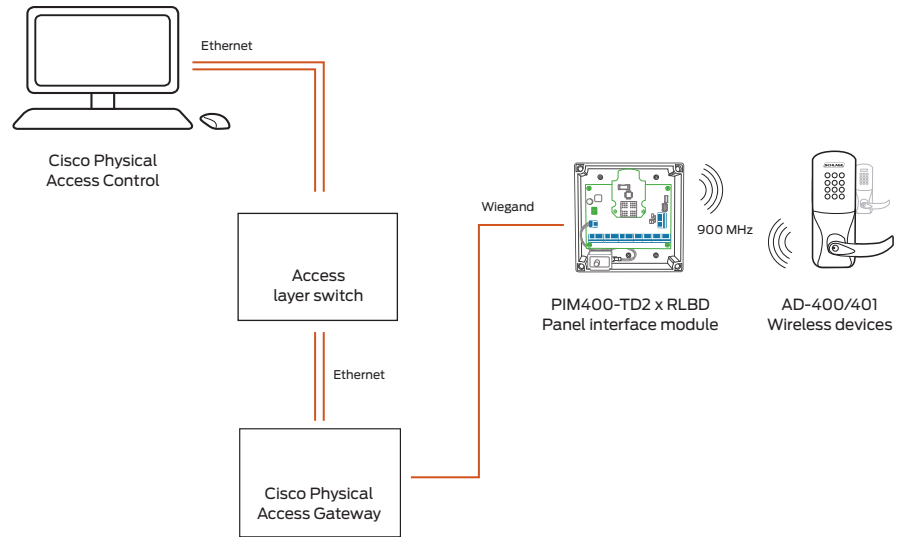
AD-301 and AD-401 FIPS 201-1 compliant solution available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS Compliant solutions by replacing existing reader with new FMK reader. Please contact Cisco to confirm they will be able to support your FIPS 201 credential format.

System Capabilities Summary

- AD-300 hardwired:
 - Field configurable fail safe/fail secure
 - Communicates to the controller via PIB300-2D (Wiegand or Clock & Data); supporting up to 2 per PIB300
- AD-400 wireless:
 - Communicates to the controller via PIM400-TD2 (Wiegand or Clock & Data); supporting up to 2 per PIM400
 - Secure 900 MHz wireless communication, AES-128 bit encrypted
 - Real time access control and monitoring
 - Powered by four (4) standard off-the-shelf AA batteries
 - Patent pending wireless lockdown/unlock feature via PIM400-TD2 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather resistant, exterior operating temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

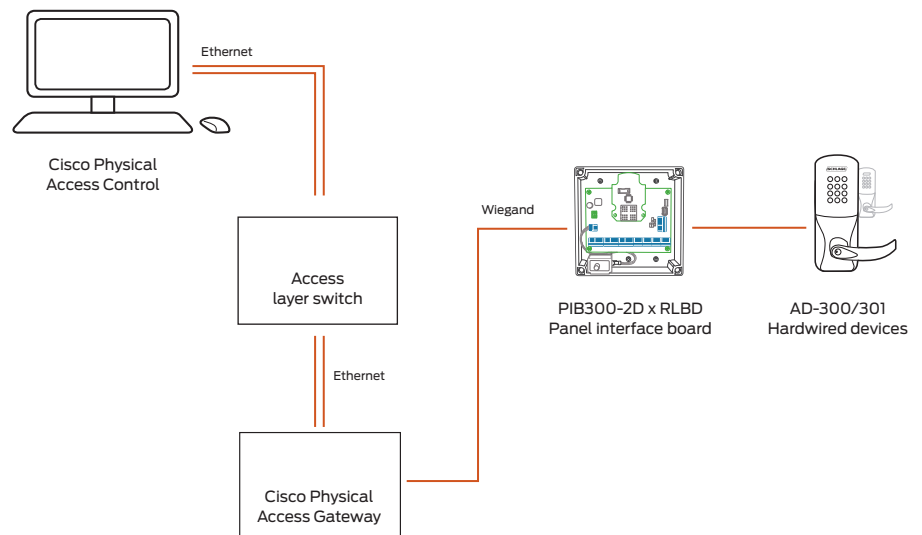
AD-400/401 via PIM400-TD2 with Cisco Physical Access Control and Cisco Physical Access Manager

- Cisco Physical Access Control is integrated with Cisco Video Surveillance Manager and runs on a 1-RU Physical Security Multiservices Platform
- The Cisco Physical Access Manager is used to configure, monitor, and control the Cisco Physical Access Gateways and modules. CPAM can also run virtually as a Virtual Machine on the Cisco UCS System.
- The Cisco Physical Access Gateway is a required hardware component of a physical access control solution that connects door hardware to the network.
- Supports up to 2 readers
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



AD-300/301 via PIB300-2D with Cisco Physical Access Control and Cisco Physical Access Manager

- Cisco Physical Access Control is integrated with Cisco Video Surveillance Manager and runs on a 1-RU Physical Security Multiservices Platform
- The Cisco Physical Access Manager is used to configure, monitor, and control the Cisco Physical Access Gateways and modules. CPAM can also run virtually as a Virtual Machine on the Cisco UCS System.
- The Cisco Physical Access Gateway is a required hardware component of a physical access control solution that connects door hardware to the network.
- Supports up to 2 readers
- Wireless range up to 200' in typical building construction, 1000' clear line of sight



Note:

Please refer to AD-300, AD-301, AD-400, AD-401, PIM400-TD2, PIB300-2D, and RLBD data sheets for complete AD Series specifications.

System capabilities:

	AD-400/401 PIM400-TD2 ³	AD-300/301 PIB300-2D ³
Features		
Maximum Number of readers supported by controller/PIM	2	2
Maximum Number of readers per PIM400/PIB300	2	2
Maximum Number of PIM400s and/or AD-300s per Wiegand port	1	1
Access control decision made by host software or by lock database	Host	Host
Remote Linking capability via Host	No	N/A
Readers - see supported card formats below		
Keypad only	Yes	Yes
Magnetic stripe card	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes
PIV & PIV-I card compatible ¹	Yes ¹	Yes ¹
Card + PIN	Yes	Yes
Status monitors		
Request to exit	Yes	Yes
Door position	Yes	Yes
Mechanical key override	No	No
Request to enter	No	No
Low battery status	Yes	N/A
Communication status: RF	Yes	Yes
Remote lockdown/unlock	Yes (<10 secs) ²	Yes
Deadbolt position	No	No
Interior push button	No	No
Lock functions		
Classroom/storeroom	Yes	Yes

Please contact Cisco for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

- 1 FIPS 201 Compliant Option available: The AD-series can be used in applications which require approval by the US federal government under HSPD-12 for FIPS 201 compliance. 75 bit output format default. Configurable to other output formats. Specific components are required, please see the AD-401 and AD-301 data sheets for complete details. Contact Cisco to confirm they are able to support your FIPS 201 credential format.
- 2 Wake up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HDD.
- 3 Requires RLBD dry contact board for supervised contacts.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

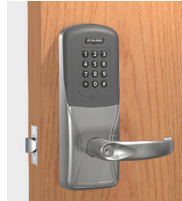
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



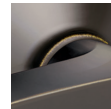
605
Bright brass



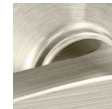
606
Satin brass



612
Satin bronze



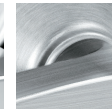
643e
Aged bronze



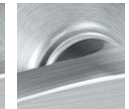
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
005630, Rev. 09/17
www.allegion.com/us



Integrated security solution

with NDE and LE wireless locks featuring ENGAGE™ technology and Cloud Concierge



Overview

Schlage® NDE and LE locks with ENGAGE™ technology seamlessly integrate with Cloud Concierge to provide a cost effective and scalable access control solution to meet your security needs.

The Schlage NDE/LE wireless locks with ENGAGE technology are designed to be easy to install, connect, manage and use. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, it is ideal for interior office doors, common area doors and sensitive storage spaces.

Cloud Concierge is a powerful suite of cloud-based computing services offered by Galaxy Control Systems. The suite provides real-time monitoring, management and control of your access control system from a convenient location using your PC, tablet, or even your mobile phone. From access control, to monitoring or video, we have your business needs covered. Backed by a cloud infrastructure, our services live in the cloud where you can manage your business anywhere, at any time.

Cloud Concierge also supports AD Series locks allowing you to combine both lock platforms into a single solution.

System Capabilities Summary

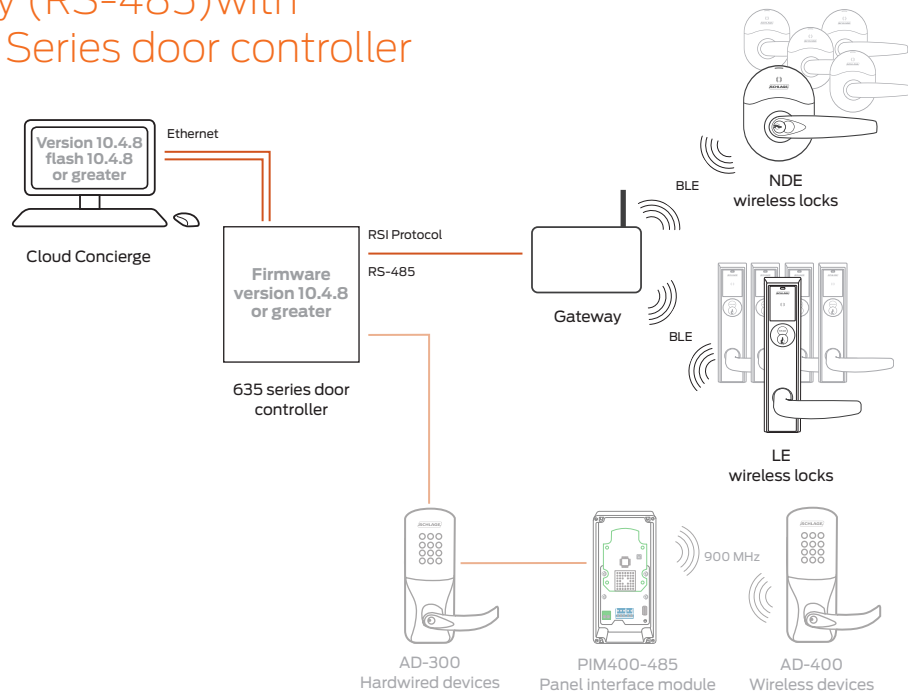
- Multi-technology reader (125 kHz proximity and 13.56 MHz smart)
- AES-256 bit encrypted
- Classroom/Storeroom function for NDE/LE and optional Privacy, Office and Apartment functions for LE locks
- Cylindrical chassis for NDE and mortise chassis for LE locks
- Compatible with major brands of key systems
- Powered by four (4) standard off-the-shelf AA batteries
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL10C, FCC Part 15, ADA, RoHS, Industry Canada (IC)

NDE/LE locks via Gateway (RS-485) with Cloud Concierge and 635 Series door controller

- 635 supports a maximum of 11 DSI boards with 2 ports each and a maximum of 64 devices, depending on Galaxy enclosure selected
- Each DSI channel (2 total/ per board) will support up to 16 GWE Gateways and/or PIM400-485 or AD-300 daisy chained; also supports up to 16 AD or NDE/LE locks per channel
- Each Gateway can support up to 10 NDE/LE locks and each PIM400-485 can support up to 16 AD-400 locks
- Gateway communication range up to 30' in typical building environments; a detailed site survey is recommended*

* Reference ENGAGE Gateway data sheet for additional details.

NOTE: Although not specifically shown, both devices featuring ENGAGE technology and AD Series devices can be managed on a common port. See Galaxy AD Series solution sheet for additional details.



Note:

Please refer to NDE/LE locks and ENGAGE Gateway data sheets for complete specifications.

System capabilities:

	NDE/LE locks via Gateway (RS-485)
Features	
Maximum number of locks supported by controller	64
Maximum number of locks supported via network access	N/A
Maximum number of gateways per controller/Host	64
Maximum number of NDE/LE locks per gateway	10
Access control decision made by Host software or by lock database	Host
Remote linking capability via Host	No
Update frequency	N/A
Schedules	N/A
Holiday	N/A
Credentials	
Multi-technology - 125kHz proximity and 13.56 MHz smart credentials	Yes
PIV and PIV-I card compatible	N/A
Status monitors	
Request to exit	Yes
Door position	Yes
Mechanical key override	N/A
Request to enter	N/A
Low battery status	Yes
Communication Status BLE/RS-485	Yes
Remote lockdown/unlock	Yes (<5 sec)
Interior push button	Yes
Lock functions	
Classroom/storeroom	Yes
Office - LE only	Yes
Privacy - LE only	Yes
Apartment - LE only	No
Licensing	
Please contact Galaxy Control Systems to determine licensing requirements	

Please contact Galaxy for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

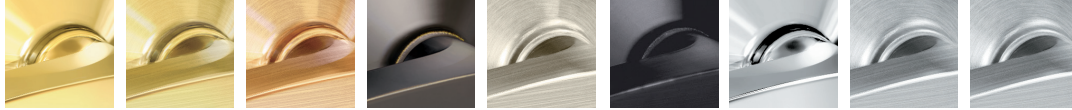
- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

Finishes



605 Bright brass 606 Satin brass 612 Satin bronze 643e Aged bronze 619 Satin nickel 622 Matte black 625 Bright chrome 626 Satin chrome 626AM Satin chrome with antimicrobial

Lever styles

These nine lever styles are the most common across the NDE/LE, and also suite across the mechanical portfolio. The LE is available in 31 levers and two knob styles including most M Series decorative lever options.



03/Tubular (TLR)

06/Rhodes (RHO)

07/Athens (ATH)

17/Sparta (SPA)

M81/Boardwalk (BRK)*

M52/Broadway (BRW)*

Latitude (LAT)*

Longitude (LON)*

Omega (OME)

*Available Q1 2018.

Escutcheon styles

LE



Addison escutcheon

Greenwich sectional

NDE



Allegion, the Allegion logo, aptiQ, ENGAGE, the ENGAGE logo, Schlage, the Schlage logo, and XceedID are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
011813, Rev. 12/17
www.allegion.com/us

COMING SOON

All features and capabilities subject to change



Wiegand security solution

With AD-400 wireless and AD-300 hardwired devices and ISONAS Crystal Matrix or Crystal Matrix w/ EasyWeb



Overview

Unlike traditional panel-based or IP-panel systems, ISONAS delivers the one proven access control solution that offers network-based, “Pure IP” to the door technology. That eliminates the need for cumbersome control panels at each and every access point, complex wiring and power supplies that are costly, and regular maintenance across physical locations. With our innovative PowerNet IPBridges, ISONAS provides a simpler and smarter alternative. Our innovative technology enables you to manage multiple locations in real-time through your existing network, lower your total cost of ownership, and experience the flexibility to go places your organization never imagined.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD-Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including realtime monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

System Capabilities Summary

AD-300 Hardwired:

- Field configurable fail safe/fail secure
- Communicates to the controller via PIB300-2D
- (Wiegand or Clock & Data): supporting up to 2 per PIB300

AD-400 Wireless:

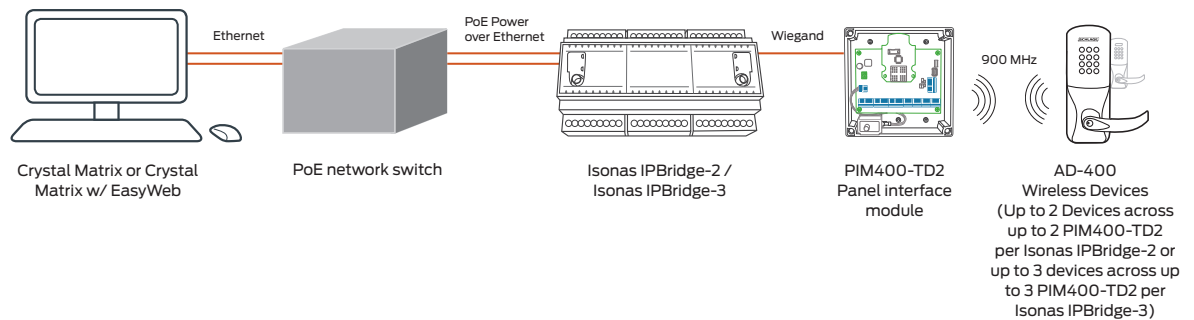
- Secure 900 MHz wireless communication, AES-128 bit encrypted
- Real time access control and monitoring
- Powered by four (4) standard off-the-shelf AA batteries
- Patent pending wireless lockdown /unlock feature via PIM400-TD2 (10 seconds or less) preserves up to 2 year battery life
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

COMING SOON

All features and capabilities subject to change

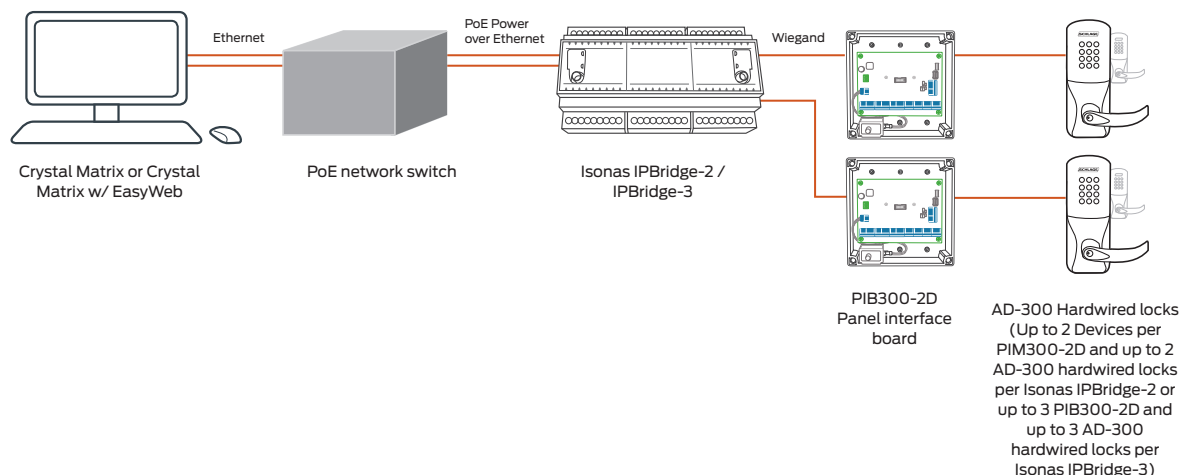
AD-400 via Wiegand IPBridge-2 / IPBridge-3

- Isonas IPBridge-2 supports a maximum of 2 AD-400 wireless locks across up to 2 PIM400-TD2 and a maximum of 2 Wiegand data ports
- Isonas IPBridge-3 supports a maximum of 3 AD-400 wireless locks across up to 3 PIM400-TD2 and a maximum of 3 Wiegand data ports
- PIM400-TD2 can support up to 2 AD-400 wireless locks
- Multiple IPBridges may be connected to support additional AD locks



AD-300 via Wiegand IPBridge-2 / IPBridge-3

- Isonas IPBridge-2 supports a maximum of 2 AD-300 hardwired locks across up to 2 PIB300-2D and a maximum of 2 Wiegand data ports
- Isonas IPBridge-3 supports a maximum of 3 AD-300 hardwired locks across up to 3 PIB300-2D and a maximum of 3 Wiegand data ports
- PIB300-2D can support up to 2 AD-300 hardwired locks
- Multiple IPBridges may be connected to support additional AD locks



Notes:

- Please refer to AD-400, AD-401, PIM400-TD2, RLBD data sheets for complete AD Series specifications.
- Although not specifically shown, both AD-300's and AD-400's can be managed on a common port.

COMING SOON

All features and capabilities subject to change

System capabilities:

	AD-400		AD-300	
Features	IPBridge-2 PIM400-TD2	IPBridge-3 PIM400-TD2	IPBridge-2 PIB300-2D	IPBridge-3 PIB300-2D
Maximum Number of readers supported by controller	2	3	2	3
Maximum Number of readers per PIM400 or PIB300	Up to 2	Up to 2	Up to 2	Up to 2
Maximum Number of PIM400s and/or AD-300s per RS-485/Wiegand Port	Up to 2	Up to 3	Up to 2	Up to 3
Access control decision made by Host software or by lock database	Host	Host	Host	Host
Remote linking capability via host	No	No	No	No
Readers - see supported card formats below				
Keypad only	Yes up to 9 digits	Yes up to 9 digits	Yes up to 9 digits	Yes up to 9 digits
Magnetic stripe card	No	No	No	No
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes	Yes	Yes	Yes
PIV & PIV-I card compatible ¹	Yes	Yes	Yes	Yes
Card + PIN	No	No	No	No
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position switch	Yes	Yes	Yes	Yes
Mechanical key override	No	No	No	No
Request to enter	Yes	Yes	Yes	Yes
Low battery status	Yes	Yes	No	No
Communication status	No	No	No	No
Remote lockdown/unlock	Yes (<10 sec) ¹	Yes (<10 sec) ¹	Yes	Yes
Deadbolt position	No	No	No	No
Interior push button	No	No	No	No
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes

Please contact Isonas for additional details on Wiegand features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

¹ Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD.

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant
option available (FMK)



Multi-technology

- Proximity
- Smart card



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

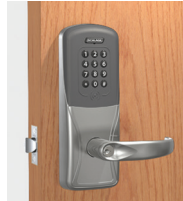
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-300/400-MS)



Cylindrical Lock (AD-300/400-CY)



Exit Device Trim (AD-300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



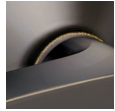
605
Bright brass



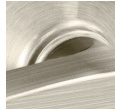
606
Satin brass



612
Satin bronze



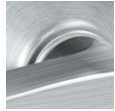
643e
Aged bronze



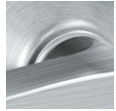
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
010487, Rev. 09/17
www.allegion.com/us



Integrated security solution

with AD-300/301 Hardwired,
AD-400/401 Wireless devices
and C·CURE 9000

SOFTWARE HOUSE



Overview

Schlage AD Series locks seamlessly integrate with C·CURE 9000 to provide a cost effective and scalable access control solution to meet your security needs.

Schlage AD Series locks combine the components typically found around the door, such as the door position switch and the request to exit switch, into one unit which simplifies installation and saves money. And since they are designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

The AD Series is available in both hardwired and wireless configurations to suit the requirements of the facility. AD Series wireless locks provide many of the key benefits of a hardwired system including real-time monitoring, audit trails, centralized lockdown and instant access control management. In retrofit applications the Schlage AD Series wireless locks and devices, which eliminate the need to run wires direct to each opening, can help you extend the reach of your access control system.

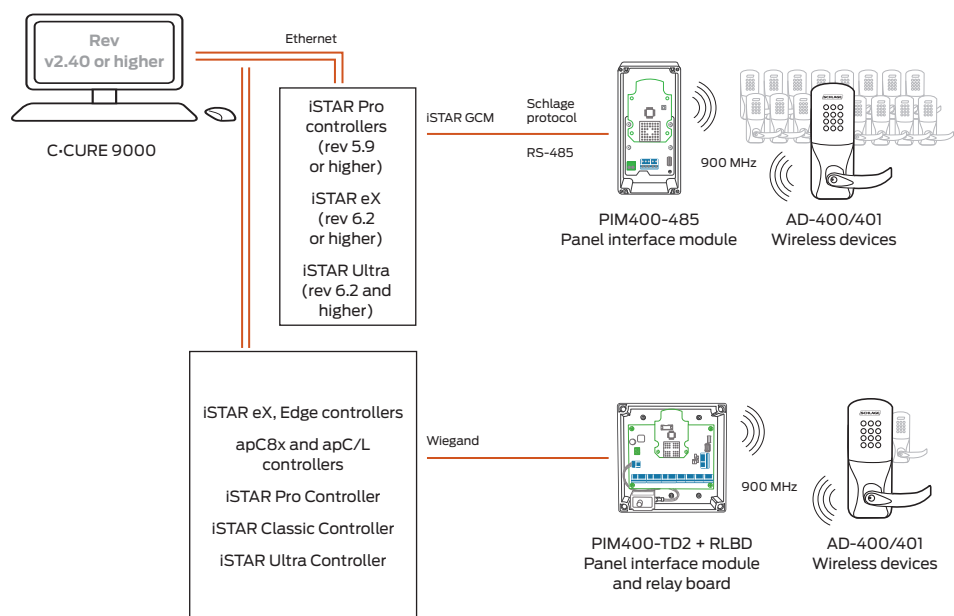
AD-301 and AD-401 FIPS 201-1 Compliant solutions available using FMK reader. Please contact Software House to confirm they are able to support your FIPS 201 credential format.

System Capabilities Summary

- AD-400/401 Wireless
 - Secure 900 MHz wireless communication, AES-128 encrypted
 - Real time access control and monitoring
 - Patent pending wireless lockdown /unlock feature via PIM400 10 seconds or less (preserves up to 2 year battery life)
 - Powered by four (4) standard off-the-shelf AA batteries
- AD-300/301 Hardwired
 - Field configurable fail safe/fail secure
- Additional details on readers supported and chassis types available on page 3 and 4
- Weather Resistant, Exterior Operating Temperature: -31° to 151°F (-35° to 66°C)
- Additional wireless products also available
 - Wireless Portable Reader (WPR400) for muster stations, buses, etc.
 - Wireless Reader Interface (WRI400) eliminates running wires to remote doors, gate, and elevator applications
- ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

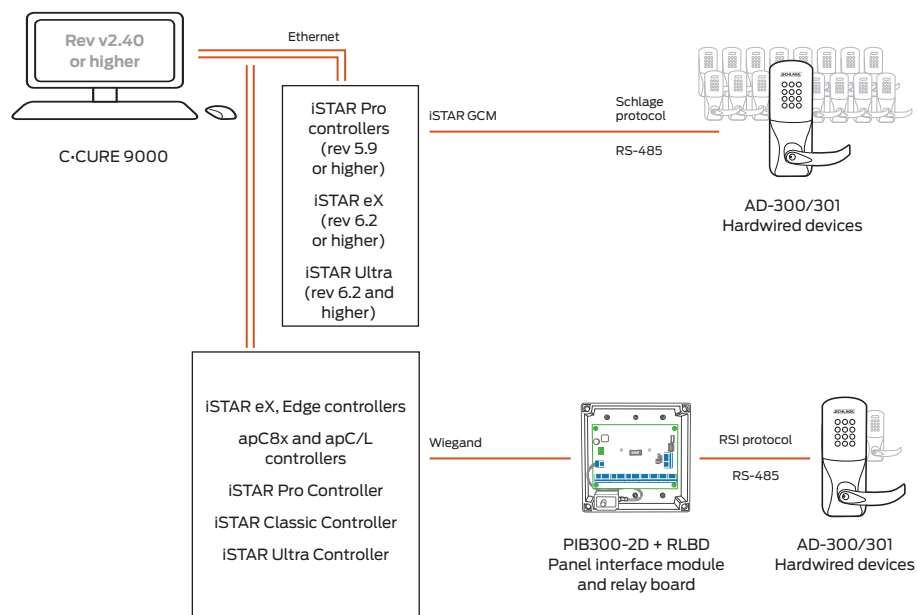
AD-400/401 via RS-485 and/or Wiegand with C · CURE 9000 and iSTAR Controllers

- iSTAR Pro and eX Controllers support up to 16 readers
 - Each connected PIM400-485 can support up to 16 AD-400/401 wireless devices
 - Each connected PIM400-TD2 can support up to 2 AD-400/401 wireless devices
- New iSTAR Ultra Controller has 2 RS-485 ports. Each port can support up to 16 AD-400 locks on up to 16 PIM400-485 and a maximum of 32 AD-400 locks total.
- iSTAR Pro supports wake on radio and pin functionality with CCURE 9000 2.10R2P1 and higher and firmware 5.2.1.1 and higher
- Wireless range up to 200' in typical building construction, up to 1000' clear line of sight



AD-300/301 via RS-485 and/or Wiegand with C · CURE 9000 and iSTAR Controllers

- iSTAR Pro and eX Controllers support up to 16 readers
 - When connected directly can support up to 16 AD-300/301 wired devices; daisy chained
 - Each connected PIB300-2D can support up to 2 AD-300/301 wired devices
- New iSTAR Ultra Controller has 2 RS-485 ports. Each port can support up to 16 AD-300/301 hardwired devices; daisy chained.



Note:

Please refer to AD-300, AD-301, PIB300-2D, AD-400, AD-401, PIM400-485, PIM400-TD2, and Relay Board RLBD data sheets for complete AD Series specifications.

System capabilities:

	AD-400/401 PIM400-485	AD-400/401 PIM400-TD2 + RLBD	AD-300/301 Direct RS485	AD-300/301 PIB300-2D + RLBD
Features				
Maximum number of readers supported by controller/PIM/PIB	16 /32 ⁴	16	16 /32 ⁴	16
Maximum number of readers per PIM400/PIB300	16	2	N/A	2
Maximum number of PIM400s and/or AD-300s per RS-485 port	Up to 16	n/A	Up to 16	N/A
Access control decision made by host or by lock database	Host	Host	Host	Host
Remote Linking capability via Host	No	No	N/A	N/A
Readers - see supported card formats below				
Keypad only	Yes	Yes	Yes	Yes
Magnetic stripe card	Yes	Yes	Yes	Yes
Multi-technology - 125 kHz proximity and 13.56 MHz smart card	Yes (smart cards up to 32 bits)	Yes (smart cards up to 32 bits)	Yes (smart cards up to 32 bits)	Yes (smart cards up to 32 bits)
PIV & PIV-I card compatible ^{1,3}	Yes	Yes	Yes	Yes
Card + PIN	Yes	Yes	Yes	Yes
Status monitors				
Request to exit	Yes	Yes	Yes	Yes
Door position	Yes	Yes	Yes	Yes
Mechanical key override	Yes	Yes	Yes	Yes
Request to enter	No	No	No	No
Low battery status	Yes	Yes	N/A	N/A
Communication status: RF/RS-485	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Remote lockdown/unlock	Yes (<10 sec)	Yes (<10 sec) ²	Yes	Yes
Deadbolt position	No	No	No	No
Interior push button	Yes	Yes	Yes	Yes
Lock functions				
Classroom/storeroom	Yes	Yes	Yes	Yes
Privacy	Yes	Yes	Yes	Yes
Licensing Please contact Software House to determine licensing requirements.				

Please contact Software House for additional details on integrated features and credentials supported.

Supported credential formats

Proximity card (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart card (13.56 MHz):

- Schlage® MIFARE Classic®
- Schlage MIFARE Plus®
- Schlage MIFARE® DESFire® EV1
- aptiQ™ MIFARE Classic
- aptiQ MIFARE DESFire EV1
- PIV and PIV-I compatible 1

Smart card (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire EV1

Note: Additional card format info on ENGAGE™ Cloud-based Web and Mobile Applications Data Sheet.

1 75 bit format output default. Configurable to other output formats.

2 Wake-up on Radio over PIM400-TD2 on up to 2 doors requires configuration at PIM via HHD

3 FIPS 201 compliant option available: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201 compliance. Specific components are required, please see the AD-401 data sheet or AD-301 data sheet for complete details. Contact Software House to confirm they are able to support your FIPS 201-1 credential format.

4 iStar Ultra

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant
option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

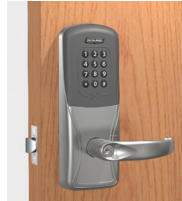
Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock
(AD-300/301-MS)
(AD-400/401-MS)



Cylindrical Lock
(AD-300/301-CY)
(AD-400/401-CY)



Exit Device Trim
(AD-300/301/400/401-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



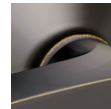
605
Bright brass



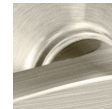
606
Satin brass



612
Satin bronze



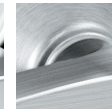
643e
Aged bronze



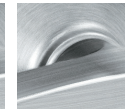
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

KRYPTONITE ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2017 Allegion
009834, Rev. 09/17
www.allegion.com/us

Stairwell doors

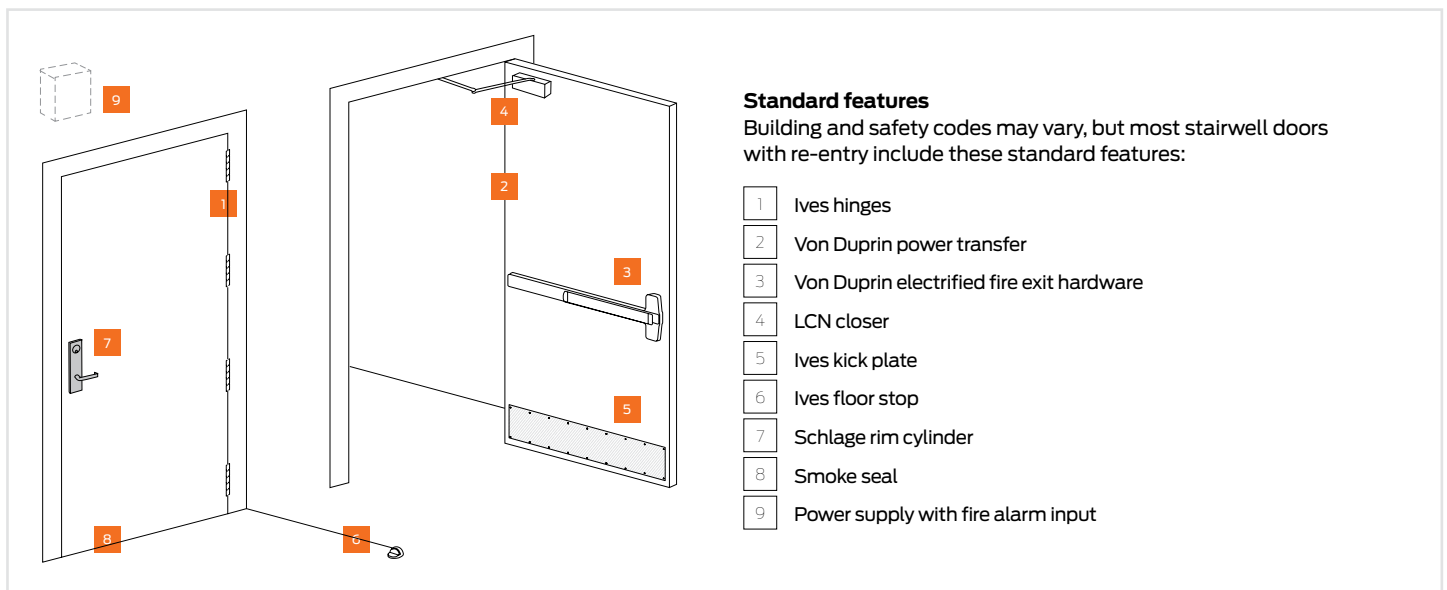
Education solutions

High traffic areas such as stairwell doors have unique access control needs due to fire and life safety codes. In an emergency, stairwell doors allow people quick access to the safest route of egress.

Most codes now require that stairwell doors unlock on fire alarm, but remain positively latched. However, after hours or in buildings that have floors with higher security needs, stairwell doors should also serve as a critical point for access control.

Stairwell door operational requirements:

- Free egress available at all times
- Access with credential on pull side
- Upon fire alarm, lever unlocks



Innovative solutions for stairwell doors

In educational buildings, the security of a stairwell with re-entry is a critical component of an overall approach to safety and security.

Ives® accessories

- For more than 120 years, Ives has produced a full line of premium hinges, pivots, flush bolts, strikes, door trim, pulls, protection plates, lock guards and many other hardware accessories.
- Crafted from the finest materials, all Ives products feature classic designs that add style and functionality to a facility.
- Ives hardware is designed to coordinate with plumbing, lighting and cabinet accessories.

Steelcraft® doors and frames

- No other manufacturer offers as robust selection of steel doors and frames as Steelcraft.
- Steelcraft doors seamlessly integrate with a variety of Schlage, LCN and Von Duprin door hardware.
- The doors are designed to never warp, crack, peel or bow, and have been proven throughout the world in both operation and physical testing of all types.
- Steelcraft offers options for fire rating, tornado and hurricane resistance, as well as AFTP anti-blast resistance.

Note: These security solutions are designed only as a guide and do not take into consideration local codes and regulations that may be in place. Please contact your local Allegion representative to design a specification to meet your unique needs.



Start
with
Allegion

Call **877-671-7011**

- Speak to a specification writer about building standards, code compliance or specification assistance
- Speak with a sales associate about our solutions, grant funding or seamless integration with your one card system

Visit **www.allegion.com/us/industries/education**

- Access our online security and safety self-assessment tools
- Find information about our products and services
- Review case studies about fire and life safety compliance in residence halls



About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit **www.allegion.com**.

aptiQ ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
005514, Rev. 05/14
www.allegion.com/us



HandPunch® GT-400

Biometric time &
attendance terminal



Overview

The industry's most reliable biometric just got better. The HandPunch® GT-400 brings the flexibility of a full-function time and attendance terminal together with the sophistication of the most robust verification technology available. To eliminate employees from punching in for one another, the HandPunch GT-400 uses the size and shape of your employee's hand to verify their identity each time they punch. No fingerprints or palm prints are utilized ensuring the privacy of each user.

A cost-saving, easy-to-use solution. With the HandPunch GT-400, your hand is your badge. The cost of creating and administering badges is eliminated along with buddy punching (when one employee clocks in for another). The system ensures payroll accuracy by simply requiring each employee to be there to punch. The terminal is fast and easy for anyone to use.

Cutting edge technology with a rich feature set. The HandPunch GT-400 uses an open architecture design coupled with standard features like a large display, programmable soft function keys and Ethernet connectivity. Coupled with our partner's solutions, the GT-400 is—hands-down—one of the most effective solutions for workforce management. This means daily, tangible benefits such as accurate record keeping, risk mitigation, and increased employee productivity that drives your bottom line and provides peace of mind for you and your employees.

Features and benefits

- 8 ATM-style soft function keys make dynamic labeling a snap
- 3.8 inch QVGA display lets users access more information per screen
- Large LED light bar for easier visual response
- Antimicrobial-infused platen, keypads and chassis
- Open architecture design enable maximum programming functionality
- Improved serviceability and uptime with remote diagnostic capability
- Employee self-service kiosk functions
- Real-time communications

SwipeClock

SwipeClock® is an online time and attendance solution for businesses, both large and small. It defines practicality in today's timekeeping industry, offering simple hardware setup, exceptional user-ease, and affordability to businesses of all sizes. Through SwipeClock's Partner Program, payroll providers can automate the process of collecting timekeeping data while increasing revenue generated from their payroll package.

Hardware specifications

Size (WxHxD):	8.0 in x 11.18 in x 7.52 in 20.32 cm x 28.40 cm x 19.10 cm
Weight:	5.8 lbs (2.63 kg)
Power:	10.8 to 13.5 VDC
Environment:	Operating: 32° F to 113° F (0° C to 45° C) Relative humidity: 5% to 85% NC Non-operating (storage): 14° F to 140° F (-10° C to 60° C)
Verification time:	Less than one second
Template size:	20 bytes
Communications:	Standard Ethernet 10/100 RJ-45 type connector
Data management keys:	8 programmable soft keys

Software specifications

Special features:	<ul style="list-style-type: none">Software as a Service (SaaS) solutionCentralized databaseHand template managementAuto configurationAutomated data synchronizationData encryption
Credential inputs:	<ul style="list-style-type: none">PIN - ID (digit length)
Supervisor capabilities:	<ul style="list-style-type: none">Enroll employee hand templateAdd punch for specific employeeAdd schedule for specific employeeReview employee schedulesReview employee timecardsReal-time employee dataManagement holidays schedulingBell scheduling
Employee capabilities:	<ul style="list-style-type: none">Department/job transferTrigger relayTip entry through clock prompts

Allegion, the Allegion logo, Schlage, the Schlage logo, and HandPunch are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
009219, Rev. 05/14
www.allegion.com/us



HandKey® II

Integrated with System
Galaxy by Galaxy Controls



Overview

Schlage HandKey II biometric HandReader seamlessly integrates with Galaxy Controls to provide a secure and convenient biometric access control solution to meet your needs.

System Galaxy is a complete, enterprise-class access control and security management solution that offers unsurpassed ability to satisfy the requirements of any credential management, access control, or security situation. With a user interface that's easy to operate and system features that deploy in any combination, Galaxy easily fits any customer.

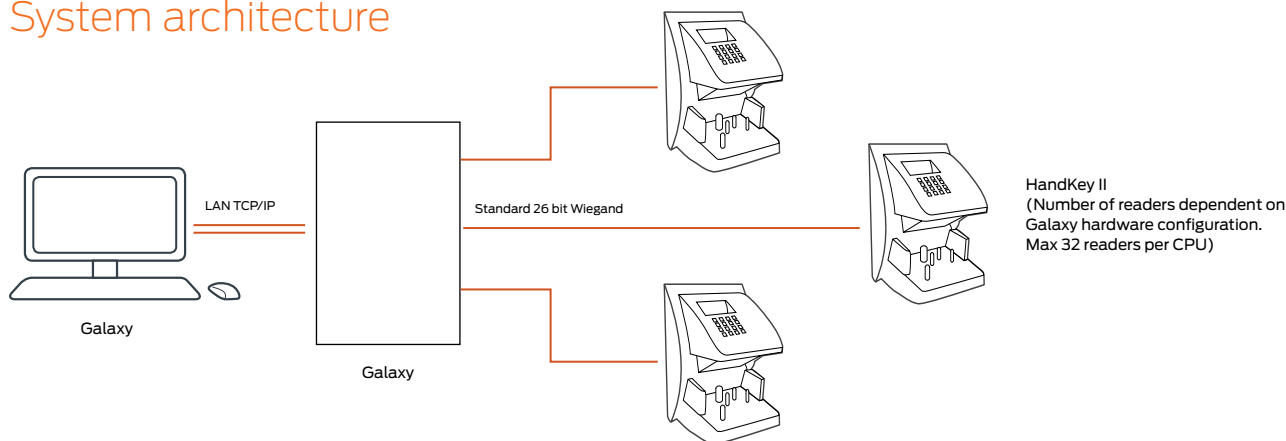
The integration of the HandKey II with Galaxy Controls allows you to add biometric security to critical access points fast, simply, and seamlessly in new and existing systems. The HandKey II measures and verifies the size and shape of a person's hand. Through the use of hand geometry, truly verify who a person is as they access a door. An optional integrated proximity or smart card reader offers multi-factor authentication to provide even higher security for the most critical applications.

Multiple mounting options are available for the HandKey II to suit the requirements of your facility. Optional enclosures provide additional protection in a variety of difficult environments and provide protection from some weather conditions.

Features and benefits

- 512 user memory, expandable up to 259,072 users
- 9 byte template
- RS485, RS422, Ethernet or Modem communications
- On the fly enrollment from any HandKey II
- HandKey II available Reader options System Galaxy:
 - Magnetic stripe
 - Proximity
 - Barcode
 - HID ICLASS®
 - MIFARE®
 - All card readers available with Card + PIN
- Power requirements: 12 to 24 VDC
- Additional enclosure options:
 - FX Enclosure for a degree of protection against dusty, dirty, or rainy environments
 - TX Enclosure for a higher degree of protection against dusty, dirty, or rainy environments
 - When used with an integrated heater option (INT-HTR), either enclosure provides a comfortable heated platen in a cold climate.

System architecture



System Capabilities

Features

Maximum number of readers supported by controller	Up to 32
Access Granted control decision made by host or HandKey	Local controller

User support

Maximum number of users supported	259,072
-----------------------------------	---------

Template management

Access control software	No
HandNet for Windows	Yes, hand templates stored in HandNet for Windows. Access decision is made at the panel.

Other system requirements

Access control decision maker	Local controller
-------------------------------	------------------

Readers - see supported card formats below

Keypad	Yes
Card + PIN+ hand	Supported by special HandKey II configuration
125 kHz prox card	Yes
13.56 MHz smart card	Supported by special HandKey II configuration

HandNet for Windows Specifications

Time zones	Available
Reports	Available
Door control	Available
Alarms	Available
Open door remotely	Available
Network readers	Available
Archive actively	Available
Remote enrollment	Available

Please contact Galaxy Controls for additional details on integrated features and credentials supported.

Supported card formats

Proximity cards (125 kHz):

- AWID®
- HID®
- Schlage®
- XceedID®

Smart cards (13.56 MHz):

- HID iCLASS®
- MIFARE®
- PIV and PIV-I compatible

Options

The HandKey II from Schlage is built to provide the convenience and added security of a biometric solution to your access control system. Designed with your application in mind, the HandKey II can be configured with a number of options to suit your needs.

Additional Information

For additional information contact Galaxy Controls at 800.445.5560 or visit www.galaxysys.com.

Options	Part number	Description
Memory options	N/A	User records and templates are stored at the panel
Communication options	EN-200	Field upgradable Ethernet communication module (10baseT)
	MD-500	Field upgradable internal dial up modem communication module
Card reader options	PROX	Externally top mounted HID prox reader ¹
	SC-100	MIFARE reader, externally side mounted ¹
	ICLASS	iCLASS reader**
	CR-2	Magnetic stripe reader, wall mountable
	BC-100	Bar code reader, wall mount swipe

¹ Factory option only

Enclosure options

Enclosures are available to protect your HandKey from the elements and to enable use regardless of your environment.



FX Enclosure



TX Enclosure

Mounting options

Schlage offers options to ensure that the HandKey can be mounted in a manner appropriate for your application.



Standard Reader comes with surface wall mount bracket



Table top secure mount for flat surfaces

This page intentionally left blank.

Allegion, the Allegion logo, Schlage, and the Schlage logo, are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com.

aptiQ ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN



© 2014 Allegion
010383, Rev. 06/14
www.allegion.com/us

For additional information contact Galaxy Controls: www.galaxysys.com or 800.445.5560