

# Linear

## Security Solutions



### **Security Systems**

**DXS Format** Supervised Wireless

**DX Format** Supervised Wireless

**Security System Kits**

**SD Format** Standard Digital Wireless

**SX Format** Supervised Wireless

**XTended Range** Wireless

### **Security System Accessories**

**Telephone Entry Systems**

**Door/Gate Access Controllers**

**Access Control Peripherals**

**Access Control Credentials**

**Access Control Accessories**



# Linear Security Solutions

## An Innovative History



Linear was established in 1961 as a manufacturer of radio controls. Over the next four decades, an unrelenting dedication to quality has turned it into the most trusted name in everyday technology.

Long known for pioneering radio frequency in everyday use, Linear now combines passive infrared detection, digital electronics, and human engineering for a full range of products. Today, Linear opens your gates, your garages, and your front doors. You walk through Linear. You talk through Linear. You trust Linear every day.

Linear's prevalence across America is simply unprecedented. Hundreds of thousands of people use Linear products every day without even knowing it. Backed by the industry's best warranties, a network of qualified integrators and installers, and unrivaled electronic solutions know-how, it's no wonder that Linear continues to lead the industry forward.

Linear combines the latest in technology with simplicity and elegance. From gate operators to intercom systems to high-definition video distribution, these are innovations that are designed to make your life easier. These are innovations that make your life better.

# Linear Security Solutions

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These Linear products are available nationwide at hundreds of conveniently located local distributor branches. These innovative products are available where you need them and when you need them, making Linear the natural choice for your security solutions.

Linear Security Solution products are distributed by:

All these brands are now under one name.



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## 02 Security Systems

### DUAL-824 24-Channel, 8-Loop Supervised Wireless/Hardwire Security Panel

• ORDER # SSC00056



The Model DUAL-824 Supervised Wireless/Hardwire Security Panel is a hybrid alarm control that includes its own built-in superheterodyne receiver with a measured range of 1,500 feet. User controls for the DUAL-824 are centralized on an easy-to-read, backlit, full-function Model DUAL-824KP keypad with numeric indicators for each of 24 supervised sensor zones. The DUAL-824 supports the addition of a second hardwire keypad. A built-in speaker generates alert and alarm zones.

The DUAL-824 panel is housed in a high-impact plastic box, with room for a rechargeable backup battery. The DUAL-824 has six operating modes and eight user codes (including duress). An optional Model VB-2 plug-in board adds valuable communications capabilities, including voice prompts, touch-tone telephone access, and a 2-way voice link for central station monitoring. Compatibility with the industry's widest line of transmitters and sensors (Linear's supervised DXS series and non-supervised DX series) means that systems can be easily tailored by site and need. Installation and programming are made easy by Linear's RA-2400 remote access software.

#### Features:

- 24 supervised zones with up to eight hardwire loops
- 12-VDC output to power most popular security devices
- High-impact plastic control panel cabinet
- Easy to mount, with plenty of room for wire and battery
- Easy-to-read, backlit control station
- Installation and programming ease
- Reduced potential for false alarm
- Plug-in voice board Model VB-2 option
- Industry's most extensive line of transmitters
- Supports two supervised hardwire control stations
- Superheterodyne receiver is integral with panel
- Supports a rechargeable backup battery
- UL Listed
- RF frequency: 315 MHz
- 11.5" W x 12.5" H x 4" D

### DVS-1200 12-Channel Supervised Wireless Security Console

• ORDER # SSC00046

### DVS-2400 24-Channel Supervised Wireless Security Console

• ORDER # SSC00036



The DVS-1200 and DVS-2400 Supervised Wireless Security Consoles are intended for apartments, condos, townhouses, homes, and any other sites that require 12 or 24 zones of protection or less. The systems feature a full-function built-in keypad with an LED display of each sensor/transmitter. Both are uniquely styled, ultra-compact, UL Listed consoles with concealed antennas for surface, flush, or tabletop mounting. Each console contains a superheterodyne radio receiver. A rechargeable backup battery also fits inside the consoles.

Both consoles have six operating modes and can be configured for 1-button operation, for eight user codes (including duress).

An optional plug-in Model VB-2 board adds valuable communications capabilities, including voice prompts, touch-tone telephone access, and a 2-way voice link for central station monitoring. Compatibility with the industry's widest line of transmitters and sensors (Linear's supervised DXS series and non-supervised DX series) means systems can be tailored by site and by need. Available models include door/windows, smoke, glass breaks, bill traps, keypads, and single- and multi-channel personal transmitters in a variety of styles (handhelds, pendants, minis, and wristbands).

Installation and programming are made easy by Linear's RA-2400 remote access software.

#### Features:

- Uniquely styled, ultra-compact console with concealed antenna
- Surface, flush, or tabletop mounting
- 1-Button arming and many other user amenities
- Optional voice prompts, touch-tone telephone access, and 2-way voice
- Quick-learn transmitters and Windows-based programming via RA-2400 software
- Superheterodyne receiver with up to 1,500-foot range
- Full complement of DX and DXS transmitters for up to a 24-zone system
- Backup battery size: 12 volts, 1.2 amp/hour
- UL Listed
- Operating frequency: 315 MHz
- 10.5" H x 7.75" W x 2.87" D

# DXS Format Supervised Wireless 03

## DXSR-1504 Supervised 4-Channel Receiver

• ORDER # SSR00070

## DXSR-1508 Supervised 8-Channel Receiver

• ORDER # SSR00071



The Model DXSR-1504 is a supervised digital receiver with solid-state outputs designed for use with Linear's DX and DXS format transmitters. This receiver can be used in a variety of security and remote control applications. When the receiver detects a signal from a transmitter programmed into its memory, the appropriate channel output activates. The channel outputs have three optional configurations: momentary, toggle on/off, and latch until restored. Status and low-battery outputs are for supervisory indications. All outputs can be configured for normally open or normally closed operation.

In a typical installation, the receivers are connected to an alarm control panel, door strike, camera, high-current relay, or some other devices. Transmitters are used to activate or control the devices. The receivers should be mounted indoors or inside a weather-resistant, non-metallic housing for outdoor use.

The CHANNEL display shows the channels activated and the presence of radio activity. Individual indicators for ALARM, STATUS, and LOW BATT show the supervisory status of each receiver channel.

### Features:

- Dual-diversity superheterodyne receivers
- Compatible with DX and DXS transmitters
- Measured line-of-sight range of 1,500 feet
- Quick-learn programming
- Selectable supervision/channel
- Individual outputs per low channel for alarm, low battery, and status trouble reports
- 7-Segment channel display (decimal point indicates RF activity)
- LED indication for alarm, low battery, and status
- Solid-state outputs
- 100 mA maximum output rating
- Selectable outputs per channel: momentary, latch, toggle
- Operating voltage: 10.2 to 14.4 VDC or 12 to 16 VAC
- Current consumption: 30 mA standby, 120 mA operating @ 12 VDC
- 7.25" W x 5" H x 1" D (without antennas)

## DXS-73 Supervised Photoelectric Smoke Detector

• ORDER # SST00113



### Features:

- Photoelectric-type detector
- Alarm, status, and low-battery transmissions
- One 3-volt lithium battery supplied
- Two status indicators
- Built-in 85 dBA sounder
- UL, CSFM, and MEA listed
- DXS format
- RF frequency: 315 MHz
- 5.375" W x 5.375" H x 2.25" D

## DXS-80 Supervised Carbon Monoxide Detector Transmitter

• ORDER # SST00116



### Features:

- Electrochemical-type detector
- Alarm, status, and low-battery transmissions
- One 3-volt lithium battery supplied
- Two status indicators
- Built-in 85 dBA sounder
- UL Listed
- DXS format
- RF frequency: 315 MHz
- 5.375" W x 5.375" H x 2" D

## DXS-81 Supervised Bill Trap Transmitter

• ORDER # SST00078



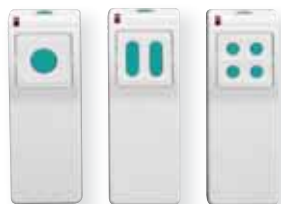
### Features:

- Status report only when cash drawer is open
- Alarm, restore, test transmissions
- Lithium battery-powered
- Test LED
- Transmit repeat feature ensures reliability
- DXS format
- RF frequency: 315 MHz
- 2.4" W x 4.5" H x 0.8" D

# 04 DXS Format Supervised Wireless

## DXS-21 Supervised 2-Button, 1-Channel Handheld Transmitter

• ORDER # SST00094



## DXS-23 Supervised 3-Button, 4-Channel Handheld Transmitter

• ORDER # SST00095

## DXS-25 Supervised 5-Button, 8-Channel Handheld Transmitter

• ORDER # SST00096

### Features:

- Complete RF supervision
- Alarm, supervisory, and low-battery transmissions
- Unique "Extra" top button
- High visibility operate LED
- Two type 2032 lithium batteries supplied
- Pocket and belt clip supplied
- DXS format
- RF frequency: 315 MHz
- 1.6" W x 4.2" H x 0.8" D

## DXS-31 Supervised Door/Window Transmitter

• ORDER # SST00073



## DXS-32 Supervised Miniature Door/Window Transmitter

• ORDER # SST00100

### Features:

- Alarm, alarm restore, supervisory, and low-battery transmissions
- Includes magnet for internal contact
- External contact terminals (DXS-31 only)
- N/O or N/C input loop circuit (DXS-31)
- DXS format
- Powered by two 2032 lithium batteries (included)
- RF frequency: 315 MHz
- 1.5" W x 3.3" H x 0.88" D (DXS-31)
- 0.9" W x 2.25" H x 0.6" D (DXS-32)

## DXS-54 Supervised Passive Infrared Motion Detector Transmitter

• ORDER # SST00074

### Features:

- Alarm, supervisory, and low-battery transmissions
- Walk-test mode
- Fresnel lens with 24 facets
- Battery saver circuitry
- 9-Volt alkaline battery supplied
- DXS format
- RF frequency: 315 MHz
- 3.2" W x 4.4" H x 1.75" D



## DXS-62A

### Supervised 1-Button, 1-Channel Pendant/Wristband Transmitter

• ORDER # SST00090



## DXS-64

### Supervised 1-Button, 1-Channel Pendant Transmitter

• ORDER # SST00112



## DXS-65

### Supervised Emergency Alarm Transmitter

• ORDER # SST00121



## DXS-91

### Supervised Glass Break Detector

• ORDER # SSA00015



### Features:

- Water-resistant
- Full RF supervision, field enabled
- Extra long-life lithium batteries
- Up to five years of battery life
- Pendant, velcro strap, wristband, belt clip, or pocket clip configurations
- Visual activation indicator
- DXS format
- RF frequency: 315 MHz
- 1.25" W x 1.5" H x 0.375" D

### Features:

- Water-resistant
- Full RF supervision, field enabled
- Long-life lithium battery
- Up to four years of battery life
- Pendant configuration
- Visual activation indicator
- DXS format
- RF frequency: 315 MHz
- 1.5" W x 2.15" H x 0.515" D

### Features:

- Water-resistant
- Large, easy-to-find help button
- Visual activation indicator
- Full RF supervision, field enabled
- Long-life lithium batteries
- DXS format
- RF frequency: 315 MHz
- 2.5" W x 3" H x 0.6" D

### Features:

- Alarm, supervisory, and low-battery transmissions
- Lithium battery-powered
- Test/operate LED
- Shatter pro pattern recognition technology
- DXS format
- RF frequency: 315 MHz
- 4.25" W x 3.13" H x 1.7" D



# DX Format Supervised Wireless 05

## DXR-701 1-Channel Receiver

• ORDER # SNR00148

## DXR-702 2-Channel Receiver

• ORDER # SNR00149



The DXR-701 and DXR-702 are digital receivers with isolated relay outputs designed for use with Linear's DX format transmitters. These receivers can be used in a variety of remote control applications.

When the receiver detects a signal from a transmitter programmed into its memory, the relay output activates. The relay has four optional output configurations.

In a typical installation, the receiver is connected to an alarm control panel, door strike, camera, high-current relay, or some other device. Transmitters are used to activate or control the device. The receivers should be mounted with the supplied mounting bracket indoors, or outdoors inside a weather-resistant, non-metallic housing. The relay activation mode is field selectable. The factory setting causes the relay to engage for four seconds with each activation. Optionally, the relay can be set to engage for one second, toggle on with one activation then off with the next, or latch engaged until reset by pressing the program button.

The DXR-702 Channel 2 is a special channel. If Channel 2 memory is empty, with no transmitters programmed into it,

when low-battery transmission is received the Channel 2 relay will latch, regardless of how the option jumpers are set. The relay will remain engaged, indicating a low transmitter battery. The output can be reset by pressing the Channel 2 program button.

### Features:

- 32-Transmitter capacity
- RF activity indicator
- Quick-learn programming
- Operates on 11-17 VDC or 12-16 VAC power
- One and two channels
- DX format
- Transmitter low-battery reporting (DXR-702 only)
- Form "C" relay output/channel
- One amp contact rating @ 24 volts AC/DC
- Selectable relay activation mode
- Current consumption: 25 mA standby, 90 mA operating @ 12 VDC
- RF frequency: 315 MHz
- 5.5" W x 4" H x 1.25" D

## DX-COKIT Supervised Carbon Monoxide Detector Transmitter & Receiver Kit

• ORDER # SSA00020



The DX-COKIT Supervised Carbon Monoxide Detector Transmitter and Receiver Kit contains a single-station DXS-80 carbon monoxide alarm with a built-in supervised transmitter and DXR-702 2-channel Receiver. The kit is designed to provide wireless CO detection capability for ANY hardwired alarm control panel. The DXS-80 provides

a warning to protect against the acute and chronic effects of carbon monoxide (CO) poisoning. The receiver provides Form "C" (normally open and normally closed) relay outputs for connection to an alarm control panel.

When carbon monoxide is detected, the DXS-80 sounds a loud local alarm. The built-in transmitter sends a digitally coded wireless signal to the DXR-702 Receiver every 20 seconds until the air has cleared and the detector is restored. The CO alarm will activate the receiver Channel 1 relay. No field coding is required because the DXS-80 is already factory-programmed into the DXR-702 Receiver. The DXR-702 Receiver can be powered from an 11-17 VDC or 12-16 VAC power source. A 9-inch wire whip antenna screws into the receiver's antenna connector. Optionally, a remote antenna (Model EXA-1000) can be connected to the receiver for greater radio range.

The DXS-80 is powered by one 3-volt lithium battery. The battery is supplied, and it can power the unit for up to the 6-year life of the detector. If the battery voltage drops below a preset level, the alarm will sound a low-battery chirp every 45 seconds, and a low-battery signal will be sent to the receiver, activating the receiver's Channel 2 relay. At about six years, the carbon monoxide detector

element will reach the end of its serviceable life. The self-supervising detector will signal a permanent trouble condition, indicating time for replacement.

### DXS-80 Detector Features:

- Electrochemical-type detector
- Alarm and low-battery transmissions reported by receiver
- One 3-volt lithium battery supplied
- Two status indicators
- Built-in 85 dBA sounder
- DXS format
- RF frequency: 315 MHz
- 5.375" W x 5.375" H x 2" D

### DXR-702 Receiver Features:

- 32-Transmitter capacity
- RF activity indicator
- Quick-learn programming
- Operates on 11-17 VDC or 12-16 VAC power
- Two channels
- Transmitter low-battery reporting
- DX format
- Two Form "C" relay outputs
- One amp contact rating @ 24 volts AC/DC
- Selectable relay activation time
- Current consumption: 25 mA standby, 90 mA operating @ 12 VDC
- RF frequency: 315 MHz
- 5.5" W x 4" H x 1.25" D

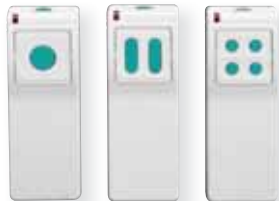
### NOTE:

The DX-COKIT is not for use in UL Listed applications

# 06 DX Format Supervised Wireless

## DXT-21 2-Button, 1-Channel Handheld Transmitter

• ORDER # SNT00376



## DXT-23 3-Button, 4-Channel Handheld Transmitter

• ORDER # SNT00377

## DXT-25 5-Button, 8-Channel Handheld Transmitter

• ORDER # SNT00378

### Features:

- Unique "Extra" top button
- High visibility operate LED
- Two type 2032 lithium batteries supplied
- Pocket/belt clip supplied
- DX format
- RF frequency: 315 MHz
- 1.6" W x 4.2" H x 0.8" D

### NOTE:

**DX format transmitters are supervised for low-battery reporting only. Hourly status reports are not sent from DX format transmitters.**

## DXT-601 1-Button, 1-Channel Key Ring Transmitter

• ORDER # SNT00410



### Features:

- Two type 2016 lithium batteries supplied
- Detachable key ring supplied
- DX format
- RF frequency: 315 MHz
- 1.25" W x 2.25" H x 0.48" D

## DXT-54 Passive Infrared Motion Detector Transmitter

• ORDER # SBT00013



### Features:

- Alarm and low-battery transmissions
- Walk-test mode
- Fresnel lens with 24 facets
- Battery saver circuitry
- 9-Volt alkaline battery supplied
- DX format
- RF frequency: 315 MHz
- 3.2" W x 4.4" H x 1.75" D

## DXT-31 Door/Window Sensor

• ORDER # SBT00014



### Features:

- Alarm, alarm restore, and low-battery transmissions
- Includes magnet for internal contact
- Includes mounting shoe
- External contact terminals
- DX format
- N/O or N/C input loop circuit
- Powered by two 2032 lithium batteries (included)
- RF frequency: 315 MHz
- 1.6" W x 3.4" H x 1.2" D

## DXT-61A 1-Button, 1-Channel Pendant Transmitter

• ORDER # SNT00380A



### Features:

- Famous "Panic Button" design
- 30-Inch neck chain included
- Test/operate LED
- Type GP-23 12-volt alkaline battery supplied
- DX format
- RF frequency: 315 MHz
- 1.42" W x 2.2" H x 0.66" D

## DXT-81 Bill Trap Transmitter

• ORDER # SNT00383



### Features:

- Low-battery reporting only when cash drawer is open
- Alarm, restore, test transmissions
- Lithium battery-powered
- Test LED
- Transmit repeat feature ensures reliability
- DX format
- RF frequency: 315 MHz
- 2.4" W x 4.5" H x 0.8" D

## DXT-41 1-Channel, 1-Button Key Ring Transmitter

• ORDER # SNT00381



## DXT-42 3-Channel, 2-Button Key Ring Transmitter

• ORDER # SNT00382

### Features:

- Two type 1620 lithium batteries supplied
- Detachable key ring supplied
- DX format
- RF frequency: 315 MHz
- 1.25" W x 2.25" H x 0.48" D

# Security System Kits 07

## DVS KIT 3 24-Channel Wireless Security Console

• ORDER # DVS00003



This 24-channel Wireless Security Console Kit contains DVS-2400, two DXS-31 Door/Window Transmitters, one DXS-54 PIR

## DVS KIT 12 24-Channel Wireless Security Console

• ORDER # DVS00012



This 24-channel Wireless Security Console Kit contains DVS-2400, three DXS-31 Door/Window Transmitters, one DXS-54 PIR

## DVS KIT 22 12-Channel Wireless Security Console

• ORDER # DVS00022



This 12-channel Wireless Security Console Kit contains DVS-1200, one DXS-31 Door/Window Transmitter, two DXS-54 PIRs

## DVS KIT 23 12-Channel Wireless Security Console

• ORDER # DVS00023



This 12-channel Wireless Security Console Kit contains DVS-1200, two DXS-31 Door/Window Transmitters, one DXS-54 PIR

## DVS KIT 24 12-Channel Wireless Security Console

• ORDER # DVS00024



This 12-channel Wireless Security Console Kit contains DVS-1200, three DXS-31 Door/Window Transmitters, one DXS-54 PIR

## DVS KIT 36 12-Channel Wireless Security Console

• ORDER # DVS00036



This 12-channel Wireless Security Console Kit contains DVS-1200, VB-2 Voice Board, two DXS-32 Mini Door/Window Transmitters, one DXS-54 PIR, one DXT-42 Handheld Mini Transmitter, RJ-31X Telephone Jack, backup battery

# 08 Security System Kits

## DVS KIT 41 12-Channel Wireless Security Console

• ORDER # DVS00041



This 12-channel Wireless Security Console Kit contains DVS-1200, two DXS-32 Mini Door/Window Transmitters, one DXS-54 PIR, one DXT-42 Handheld Mini Transmitter, VB-2 Voice Board, RJ-31X Telephone Jack, backup battery

## DVS KIT 51 24-Channel Wireless Security Console Kit

• ORDER # DVS00051



This 24-channel, Wireless Security Console Kit contains DVS-2400, two DXS-32 Mini Door/Window Transmitters, one DXS-54 PIR, one DXT-42 Handheld Mini Transmitter, VB-2 Voice Board, RJ-31X Telephone Jack, backup battery

## DVS KIT 59 24-Channel, 8-Loop Wireless/Hardwire Security Panel

• ORDER # DVS00059



This 24-channel, 8-loop Wireless/Hardwire Security Console Kit contains DUAL-824, two DXS-32 Mini Door/Window Transmitters, one DXS-54 PIR

## DVS KIT 60 24-Channel, 8-Loop Wireless/Hardwire Security Panel

• ORDER # DVS00060



This 24-channel, 8-loop Wireless/Hardwire Security Console Kit contains DUAL-824, three DXS-32 Mini Door/Window Transmitters, one DXS-54 PIR

## DVS KIT 63 24-Channel, 8-Loop Wireless/Hardwire Security Panel

• ORDER # DVS00063



This 24-channel, 8-loop Wireless/Hardwire Security Console Kit contains DUAL-824, three DXS-32 Mini Door/Window Transmitters, one DXS-54 PIR, one DXT-42 Handheld Mini Transmitter, RJ-31X Telephone Jack, backup battery

# SD Format Standard Digital Wireless 09

## D-67 1-Channel Receiver

• ORDER # SNR00032



The Model D-67 1-channel Receiver is designed for use in security systems and remote switching functions. Typical applications for the receiver include adding a wireless zone, a panic button, or creating a remote arm/disarm feature for a hardwired alarm panel. Each time a transmitter is triggered with a digital code matching the receiver's digital code, the receiver's relay will activate for four seconds.

### Features:

- Operates on 11–24 VDC or 12–16 VAC power
- One channel
- Standard digital format: 256 discrete codes
- One Form "C" relay output
- One amp contact rating @ 32 volts AC/DC
- 4-Second relay activation time
- RF frequency: 303.875 MHz
- 4.9" W x 3.8" H x 1.3" D

## D-67F 1-Channel Alternating Relay Receiver

• ORDER # SNR00035



The Model D-67F 1-channel Alternating Relay Receiver is designed for use in security systems and remote switching functions. A typical application for the receiver is creating a remote arm/disarm feature for a hardwired alarm panel. When a transmitter is triggered with a digital code matching the receiver's digital code, the receiver's relay will latch. The next time a transmitter is triggered, the receiver's relay will unlatch.

### Features:

- Operates on 11–24 VDC or 12–16 VAC power
- One channel
- Standard digital format: 256 discrete codes
- One Form "C" relay output
- One amp contact rating @ 32 volts AC/DC
- Alternating relay output: transmit to latch, transmit to unlatch
- RF frequency: 303.875 MHz
- 4.9" W x 3.8" H x 1.3" D

## D-67L 1-Channel Latching Receiver

• ORDER # SNR00030



The Model D-67L 1-channel Latching Receiver is designed for use in security systems and remote switching functions. Typical applications for the receiver include adding a wireless latching zone, a latching panic button for a hardwired alarm panel, or creating a stand-alone annunciation system. Each time a transmitter is triggered with a digital code matching the receiver's digital code, the receiver's relay will latch. Pressing the pushbutton on the side of the receiver will unlatch the relay.

### Features:

- Operates on 11–24 VDC or 12–16 VAC power
- One channel
- Standard digital format: 256 discrete codes
- One Form "C" relay output
- One amp contact rating @ 32 volts AC/DC
- Relay latches when transmitter is triggered, pushbutton unlatches the relay
- RF frequency: 303.875 MHz
- 4.9" W x 3.8" H x 1.3" D

## DX-12 1-Channel Receiver

• ORDER # SNR00038



The Model DX-12 1-channel Receiver is designed for use in security systems and remote switching functions. The receiver is housed in a heavy-duty metal case to ensure reliable operation without detuning when installed inside another metal housing. It can be used with the EXA-1000 or EXA-2000 remote antennas for improved range. Typical applications for the receiver include adding a wireless zone, a panic button, or creating a remote arm/disarm feature for a hardwired alarm panel. Each time a transmitter is triggered with a digital code matching the receiver's digital code, the receiver's relay will activate.

### Features:

- Metal housing
- Operates on 11–24 VDC or 12–16 VAC power
- One channel
- Standard digital format: 256 discrete codes
- One Form "C" relay output
- One amp contact rating @ 32 volts AC/DC
- RF frequency: 303.875 MHz
- 5.5" W x 3.8" H x 1.5" D



# 10 SD Format Standard Digital Wireless

## D-2R 2-Channel Receiver

• ORDER # SNR0009A



## D-4R 4-Channel Receiver

• ORDER # SNR00017A

The D-2R and D-4R 2- and 4-channel Receivers are designed for use in security systems and remote switching functions requiring more than one wireless zone or output. Using one multi-channel receiver instead of several single-channel receivers enables the installer to cut installation costs and improve system performance by eliminating RF interference problems present in multiple-receiver installations.

The outputs of the D-2R and D-4R receivers are isolated dry relay contacts. Dry contacts indicate that the switching contacts are isolated from the receiver's power supply. The receiver provides

normally open and normally closed contacts for each channel. The current rating of each relay output is one amp at 32 volts maximum.

### Features:

- Operates on 11–24 VDC or 12–16 VAC power
- Current consumption: 15 mA standby, 60 mA operating
- Independent channels
- Standard digital format: 64 discrete codes
- Form "C" relay outputs
- One amp contact rating @ 32 volts AC/DC
- RF frequency: 303.875 MHz
- 4.9" W x 4.2" H x 1.3" D

## D-8C 8-Channel Receiver

• ORDER # SNR00020A



The Model D-8C 8-channel Receiver is designed for use in security systems and remote switching functions requiring more than one wireless zone or output. Using one multi-channel receiver instead of several single-channel receivers enables the installer to cut installation costs and improve system performance by eliminating RF interference problems present in multiple-receiver installations.

### Features:

- Operates on 11–24 VDC or 12–16 VAC power
- Current consumption: 10 mA standby, 40 mA operating
- Eight independent channels
- Standard digital format: 32 discrete codes
- Solid-state outputs
- 40 mA maximum output rating @ 32 volts VDC
- RF frequency: 303.875 MHz
- 4.9" W x 4.2" H x 1.3" D

## D-21A Normally Open Wall-Mount Transmitter

• ORDER # SNT00004

## D-24A Normally Closed Wall-Mount Transmitter

• ORDER # SNT00189



### Features:

- Slimline case design
- Test/operate switch
- Test/operate LED
- 2-Second transmission
- Standard digital format: 256 selectable codes
- One N/O or N/C input loop circuit
- Loop input screw terminals
- Powered by one 9-volt battery (included)
- Current consumption: 12 mA transmitting
- RF frequency: 303.875 MHz
- 2.4" W x 4.7" H x 0.9" D

## D-23R Bill Trap Transmitter

• ORDER # SNT00029R



### Features:

- Bill-size case design
- Test/operate bill clip switch
- Test/operate LED
- Transmits immediately and repeats the signal every 45 seconds when "bait" bill is removed
- Standard digital format: 256 selectable codes
- Powered by one 9-volt battery (included)
- Current consumption: 12 mA transmitting
- RF frequency: 303.875 MHz
- 2.4" W x 6.2" H x 0.9" D

# SD Format Standard Digital Wireless

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## D-22A 1-Channel, 1-Button Handheld Transmitter

• ORDER # SNT00016



## D-22B 2-Channel, 2-Button Handheld Transmitter

• ORDER # SNT00296

## D-22C 2-Channel, 2-Button Independent Code Transmitter

• ORDER # SNT00298

### Features:

- Two test/operate pushbuttons (D-22A has one test/operate pushbutton)
- Test/operate LED
- Removable wall mounting clip
- Standard digital format: 256 selectable codes for each pushbutton
- Powered by one 9-volt battery (included)
- Current consumption: 12 mA transmitting
- RF frequency: 303.875 MHz
- 2.16" W x 3.75" H x 0.88" D

## D-22D 2-Channel, 2-Button Lockout Transmitter

• ORDER # SNT00299



### Features:

- Two test/operate pushbuttons
- Lockout operation: either button sends channel one, both buttons send channel two
- Test/operate LED
- Removable wall mounting clip
- Standard digital format: 128 selectable codes
- Powered by one 9-volt battery (included)
- Current consumption: 12 mA transmitting
- RF frequency: 303.875 MHz
- 2.16" W x 3.75" H x 0.88" D

## D-4B 4-Channel, 4-Button Handheld Transmitter

• ORDER # SNT00048B



### Features:

- Four test/operate pushbuttons
- Test/operate LED
- Removable wall mounting clip
- Standard digital format: 64 selectable codes
- Powered by one 9-volt battery (included)
- Current consumption: 12 mA transmitting
- RF frequency: 303.875 MHz
- 2.16" W x 3.75" H x 1" D

## ET-1B Emergency Transmitter

• ORDER # SNT00054B



### Features:

- 2-Button lockout operation
- Water-resistant
- Includes neck chain
- Standard digital format: 256 selectable codes
- Powered by one 12-volt battery (included)
- RF frequency: 303.875 MHz
- 1.72" W x 1.72" H x 0.75" D

## ET-2-12 Miniature Transmitter

• ORDER # SNT00055A



### Features:

- Famous "Panic Button" design
- 30-Inch neck chain included
- Test/operate LED, red button
- Type GP-23 12-volt alkaline battery supplied
- Standard digital format: 256 selectable codes
- RF frequency: 303.875 MHz
- 1.42" W x 2.2" H x 0.66" D

## ET-2-19 Miniature Transmitter

• ORDER # SNT00055



### Features:

- Famous "Panic Button" design
- 30-Inch neck chain included
- Test/operate LED, white button
- Type GP-23 12-volt alkaline battery supplied
- Standard digital format: 256 selectable codes
- RF frequency: 303.875 MHz
- 1.42" W x 2.2" H x 0.66" D

# 12 SX Format Supervised Wireless

## SXR-64A 64-Channel, 8-Zone Supervised Receiver

• ORDER # SSR00083



The Model SXR-64A is a 64-channel, 8-zone, supervised wireless receiver/annunciator designed for use in residential or commercial security systems. Housed in a rugged metal enclosure with a high-gain receiver, the SXR-64A connects to a hardwired alarm control panel, adding wireless capability to the panel. The unit's eight alarm zones and four supervisory outputs provide a flexible interface. Any or all of the zones can be used.

The SXR-64A receives signals from a variety of security transmitters, then processes, displays, and transfers the signal to the hardwired alarm control panel. Six unique conditions for each transmitter can be shown on the unit's display. Valuable features such as Alarm Memory and Transmitter Status allow for quick system diagnosis and troubleshooting. All of the solid-state zone outputs can be either normally open or normally closed electrical configuration and can switch up to 100 mA @ 24 VDC. An easy programming interface using four pushbuttons lets the installer quickly set up the system. The UP, DOWN, ADVANCE, and MEMORY buttons are located inside the receiver case and are used for transmitter and system programming. An on-board, high-gain superheterodyne radio receiver gives the SXR-64A excellent reception. The MODE indicator shows RF activity. The local whip antenna (supplied) or remote external antenna (Model EXA-1000) connects to the receiver through a standard Type "F"

connector. The SXR-64A decodes Linear's 303.875 MHz SX, S1, and MegaCode format transmitters. The SXR-64A can be used as a direct replacement for Linear's SS-32, SSR-32, and SXR-64 receivers, with an installation bonus of being able to use up to 64 transmitters in the system. Power for the SXR-64A is provided from the alarm control panel. To control the alarm memory, reset tamper, and status alert conditions, an armed input on the receiver connects to an armed output from the control panel.

### Features:

- Superheterodyne receiver technology – 1,500 feet of line-of-sight range
- Multifunction display shows complete system status and alarm memory
- Supports up to 64 wireless transmitters
- Eight alarm zone outputs
- Four supervisory outputs: low battery, status, tamper, and test
- Each transmitter is programmable to activate any alarm zone
- Interfaces with most control panels via solid-state outputs
- Field-selectable polarity for alarm zones and supervisory outputs
- Armed input monitors the control panel's arm/disarm state
- Full transmitter RF supervision with reporting
- Field-selectable 2- or 8-hour time frame for supervising transmitter status reports
- Field-selectable supervision for each transmitter
- Receives SX, S1, and MegaCode radio formats (at 303.875 MHz)
- Operating frequency: 303.875 MHz
- 7.9" W x 6.5" H x 1.25" D

## TX-91 Supervised 2-Button, 3-Channel Handheld Transmitter

• ORDER # SST00055



### Features:

- Complete RF supervision
- Alarm, supervisory, and low-battery transmissions
- Unique "Extra" top button
- High visibility operate LED
- Two type 2032 lithium batteries supplied
- Pocket and belt clip supplied
- SX format
- RF frequency: 303.875 MHz
- 1.6" W x 4.2" H x 0.8" D

## TX-92 Supervised 3-Button, 6-Channel Handheld Transmitter

• ORDER # SST00056



### Features:

- Complete RF supervision
- Alarm, supervisory, and low-battery transmissions
- Unique "Extra" top button
- High visibility operate LED
- Two type 2032 lithium batteries supplied
- Pocket and belt clip supplied
- SX format
- RF frequency: 303.875 MHz
- 1.6" W x 4.2" H x 0.8" D

## TX-94 Supervised 5-Button, 15-Channel Handheld Transmitter

• ORDER # SST00057



### Features:

- Complete RF supervision
- Alarm, supervisory, and low-battery transmissions
- Unique "Extra" top button
- High visibility operate LED
- Two type 2032 lithium batteries supplied
- Pocket and belt clip supplied
- SX format
- RF frequency: 303.875 MHz
- 1.6" W x 4.2" H x 0.8" D



# SX Format Supervised Wireless

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## ST-23A Supervised Bill Trap Transmitter

• ORDER # SST00049A



### Features:

- Motion detector for low-battery reporting when the cash drawer is open
- Alarm, restore, test transmissions
- Lithium battery-powered
- Test LED
- Transmit repeat feature ensures reliability
- S1 format
- RF frequency: 303.875 MHz
- 2.4" W x 4.5" H x 0.8" D

## LMT-1/303 Miniature Transmitter

• ORDER # SNT00359



### Features:

- Famous "Panic Button" design
- 30-Inch neck chain included
- Test/operate LED
- Type GP-23 12-volt alkaline battery supplied
- MegaCode format
- RF frequency: 303.875 MHz
- 1.42" W x 2.2" H x 0.66" D

## T-90D Supervised Door/Window Transmitter

• ORDER # SST00050D



### Features:

- Compact, attractive style
- Fully supervised
- Tamper switch
- Test switch
- Internal reed switches
- Supplied with adjustable external magnet
- Over 16,000,000 preprogrammed codes
- External contact terminals
- Installer-selected external contact mode N/O or N/C
- Fast or slow response glass break sensor selection
- Plastic mounting shoe with tamper lock
- Powered by two 2032 lithium batteries (included)
- Optional 2450 lithium batteries can be used for extended life
- SX format
- RF frequency: 303.875 MHz
- 1.5" W x 3.3" H x 0.88" D

## TGB-96 Supervised Pattern Recognition Technology Glass Break Detector

• ORDER # SSA00016



### Features:

- Dual-technology detection device
- Full RF supervision
- Includes T-90D transmitter board
- Powered from one battery set
- Alarm, supervisory, and low-battery transmissions
- Lithium battery-powered
- Test/operate LED
- Shatter pro pattern recognition technology
- SX format
- RF frequency: 303.875 MHz
- 4.25" W x 3.13" H x 1.7" D

## TMD-90 Supervised Passive Infrared Motion Detector

• ORDER # SST00058



### Features:

- Dual-element pyroelectric sensor
- Fully supervised
- Tamper switch
- Walk-test mode
- Adjustable pulse count
- Transmission delay feature
- Retransmission delay
- Multiple lens options
- Alkaline batteries supplied
- 5-Year battery life
- UL Listed
- SX format
- RF frequency: 303.875 MHz
- 3.25" W x 5.75" H x 1.75" D

# 14 XTended Range Wireless

## XR-1 1-Channel Mid-Range Receiver

• ORDER # SSR00068

## XR-4 4-Channel Mid-Range Receiver

• ORDER # SSR00069

## XR-16 16-Channel Mid-Range Receiver

• ORDER # SSR00066



The XR-1, XR-4, and XR-16 Mid-range Receivers are designed for use in various wireless remote control applications with an extended range of up to ten miles between transmitters and the receiver. When the receiver detects a signal from a transmitter, it will verify the digital code, activate the correct output channel, and trigger the remote device connected to the receiver.

The XR-1 and XR-4 receiver outputs provide isolated N/O and N/C relay contacts for each channel capable of switching a maximum of one amp @ 32 VDC each. The low-battery and status outputs are solid-state and are capable of switching up to 50 mA @ 20 VDC to ground. The XR-16 alarm, low-battery, and status outputs are solid-state and are capable of switching up to 100 mA @ 24 VDC to ground (programmable as N/O or N/C). The XR-16 also has a relay that can activate with all signals, or just alarm signals.

Each receiver has full supervision capabilities. If the status option is selected, the receiver expects hourly status signals from transmitters. If these signals cease, the receiver will indicate trouble by activating its status output after four hours. Contact supervision allows the receiver's outputs to follow the transmitter's inputs, each output staying activated as long as each transmitter input is activated. Alternately, an auto-restore option can be selected in the transmitter, causing a momentary receiver output each time any transmitter input is activated. If the transmitter sends a low-battery signal, the receiver's low-battery output will activate.

Two antennas (sold separately) are available. The Model ANT-1A is a 7-inch rubber duck antenna for short-range applications (less than one mile). The ANT-1A is supplied with a CON-180A (straight) connector to attach the antenna to the receiver. For a right-angle antenna mounting, use a CON-90A right-angle connector with the CON-180A. The Model ANT-2 is a 3-foot whip antenna for use in long-range or difficult installations.

Power for the receiver can come from an external 12-VDC power supply (Linear Model T-1224DC) or from a 12-volt battery.

### Features:

- Up to ten miles of line-of-sight range with XT-1 and XT-4
- Up to two miles of line-of-sight range with XT-1H, XT-2H, or XT-4H
- Superheterodyne receiver technology
- Over 64,000 codes
- Form "C" relay and solid-state outputs
- Weather-resistant case (XR-1 and XR-4 only)
- Power on and RF activity indicators
- Optional RF supervision
- RF frequency: 27.255 MHz
- 4.25" W x 6.25" H x 2.5" D (XR-1 and XR-4)
- 7.9" W x 6.25" H x 1.25" D (XR-16)



## XT-1H 1-Channel Mid-Range Transmitter

• ORDER # SNT00395

## XT-2H 2-Channel Mid-Range Transmitter

• ORDER # SNT00396

## XT-4H 4-Channel Mid-Range Transmitter

• ORDER # SNT00397

### Features:

- Up to two miles of line-of-sight range
- Over 64,000 codes
- Includes belt clip
- Faceplate supplied for multi-channel and 2-button lockout operation
- Powered by two 9-volt batteries (included)
- RF frequency: 27.255 MHz
- 2.375" W x 12.25" H x 1.375" D



## XT-1 1-Channel Stationary Mid-Range Transmitter

• ORDER # SST00083

## XT-4 4-Channel Stationary Mid-Range Transmitter

• ORDER # SST00084

### Features:

- Up to ten miles of line-of-sight range
- Over 64,000 codes
- RF transmit LED
- Accepts N/O or N/C inputs
- Complete RF supervision, field enabled
- Fully supervised (loop status, low battery, link integrity)
- Weather-resistant case
- RF frequency: 27.255 MHz
- 4.25" W x 6.25" H x 2.5" D



# Security System Accessories

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## DUAL-824KP Hardwired Keypad

• ORDER # AAE00451



### Features:

- Easy-to-read, backlit control station
- Installation and programming ease
- UL Listed for use with the DUAL-824
- 6.6" W x 4.4" H x 1.4" D

## DXS-10 Supervised Remote Keypad

• ORDER # SST00079



### Features:

- Adds remote control to DVS-1200, DVS-2400, and DUAL-824 security systems
- Arming, disarming, fire, and emergency alarm capabilities
- Telephone-style keypad plus system mode keys
- Wall mounting or tabletop use
- Powered by one 9-volt battery (included)
- RF frequency: 315 MHz
- 3.8" W x 3.56" H x 1.25" D

## RSM-2 Remote Speaker/Microphone

• ORDER # CAE00191



### Features:

- Speaker and microphone mounts inside DUAL-824KP Keypad
- Provides 1-way and 2-way audio at the keypad

## ANT-1A 7-Inch Mid-Range Antenna

• ORDER # SNE00031



### Features:

- Antenna for Linear's mid-range transmitters and receivers
- 7-Inch "rubber duck" style
- Supplied with CON-180A straight antenna connector
- Order CON-90A connector for right-angle antenna mounting
- 0.65" W x 7" H x 0.65" D

## ANT-2 3-Foot Mid-Range Antenna

• ORDER # SNE00002



### Features:

- Antenna for Linear's mid-range transmitters and receivers
- 3-Foot whip style
- 18 feet of coax cable included
- U-bolt included for post mounting
- 2.25" W x 39" H x 2" D

## EXA-1000 Omnidirectional Remote Antenna

• ORDER # AAE00198



### Features:

- Compatible with all Linear receivers with Type "F" antenna connector
- Receives signals in 288 to 320 MHz range
- Omnidirectional remote antenna
- Includes five feet of coax
- U-bolt for post mounting
- 3" W x 19.5" H x 6" D

## VB-2 2-Way Audio & Remote Command Module with Voice Prompts

• ORDER # AAE00365



### Features:

- Controls DVS-1200, DVS-2400, and DUAL-824 system remotely
- Controls DVS-2400 and DUAL-824 system locally
- Digitally synthesized voice sounds system prompts
- Adjustable volume
- 2-Way audio with the central station
- Remote speaker and microphone supported
- 5.25" W x 2.2" H x 0.5" D



### Features:

- Connector for Linear's mid-range transmitter and receiver ANT-1A Antenna
- Right-angle female-to-male type BNC connector
- 0.57" W x 0.93" H x 1.14" D

# 16 Security System Accessories

## LA-P

### External Antenna Kit

• ORDER # AAE00366



#### Features:

- Compatible with DVS-1200, DVS-2400, and DUAL-824 systems
- Omnidirectional external antenna
- Antenna connector mounts inside case
- Compatible with EXA-1000 External Antenna

## T-1224DC Power

### Supply 12 VDC @ 2 Amps

• ORDER # AAE00381



#### Features:

- Used with Models XT-1 and XT-4
- Input: 120 VAC, 60 Hz
- Output: regulated 12 VDC @ 2 Amps
- UL Listed
- Class 2
- Plug-in style
- Tinned wires on output cable

## T-124.8DC Power

### Supply 12 VDC @ 400 mA

• ORDER # AAE00382



#### Features:

- Used with Models XR-1, XR-4, and XR-16
- Input: 120 VAC, 60 Hz
- Output: unregulated 12 VDC @ 400 mA
- UL Listed
- Class 2
- Plug-in style
- Tinned wires on output cable

## 12V-AB

### 12-Volt Miniature Alkaline Battery

• ORDER # 203814



## 12V-GB Rechargeable

### 12-Volt, 1.2-Amp/Hour Gel-Cell Battery

• ORDER # 100104



## 1616

### 3-Volt Lithium Battery

• ORDER # 208923



## 2032

### 3-Volt Lithium Battery

• ORDER # 203583



## WHIP

### Rigid Local Antenna

• ORDER # 109186-01



#### Features:

- Compatible with all Linear receivers with Type "F" antenna connector
- 8-Inch solid wire antenna
- Whip end has loop for safety
- Plastic connector boot
- Type "F" male connector

## 2450

### 3-Volt Lithium Battery

• ORDER # 208882



## BELT-CLIP

### Belt/Visor Clip

• ORDER # 210456-01



#### Features:

- Clip for D-22 series transmitters
- Clips to an automotive visor
- Clips onto a belt

# Telephone Entry Systems 17

## AE-100 Commercial Telephone Entry System

• ORDER # ACP00937



The Model AE-100 Commercial Telephone Entry System is designed for use as a primary access control device for apartments, condominiums, and offices with up to 125 residents.

The system can be used in a lobby or outside. Surface, recessed, and pedestal mounting options are supported. The system utilizes hands-free, full-duplex

telephone communications between visitors and residents for granting access.

Housed in a locked, rugged stainless steel faced enclosure, the AE-100 features a lit 12-key telephone-style keypad and four operation buttons, all with bright, easy-to-see graphics. The backlit 2-line directory LCD display scrolls a programmable welcome message and shows the directory names and directory codes.

The system contains a built-in microphone, tamper-resistant speaker, and a TTY connector for the hearing impaired. The heavy duty access relay can control electric door strikes, magnetic locks, door & gate operators, or barrier gates.

Multi-lingual display programming prompts and voice help are available with a choice of English, Spanish, French-Canadian, or Portuguese. The system can be programmed locally using the keypad or remotely with a touch-tone telephone.

Up to four AE-100 units can be connected to the same dedicated telephone line to form a simple network. Connecting multiple units allows transferring programming data (either the directory entries only or the entire memory's contents) from the "master" unit to the other sub-units.

Optional features that the AE-100 supports

are provisions for postal lock and color CCTV camera installation (Model CCM-1).

The AE-100 is powered from a 16-VAC plug-in transformer and supports an internal rechargeable 1.2-amp/hour backup battery (not included). The battery charging circuit will support an external backup battery with up to 7-amp/hour capacity.

### Features:

- Applications include small apartment buildings, condominiums, or gated communities
- Many installation choices: surface, recessed, gooseneck
- Stainless steel front panel
- Telephone-style keypad with lighting
- Accepts a total of 125 directory listings or stand-alone entry codes
- TTY jack for connection to text communication devices for the hearing impaired
- Simple network capability with up to four units
- Installer-friendly with two programming methods available
- 2-Line, 16-character LCD display
- Removable terminal blocks
- Programmable through the unit's keypad or over the telephone
- Form "C" access relay rated at ten amps AC and seven amps DC @ 30 volts
- Load shed circuitry protects backup battery
- Supports optional color CCTV camera and postal lock
- Optional trim ring (Model TR-100) for recessed mounting
- 9.75" W x 11.75" H x 3.5" D

## AE-500 Commercial Telephone Entry System

• ORDER # ACP00899



The Model AE-500 Commercial Telephone Entry System is designed for use as a primary access control device for gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings, and recreational facilities with up to 250 residents or users.

Housed in a locked, rugged stainless steel faced enclosure, the AE-500 features a side-lit, 12-key telephone-style keypad with bright, easy-to-read graphics, a backlit 2-line directory display with a programmable welcome message, a built-in microphone, speaker, and provision for an optional color CCTV camera.

The two relay output channels can be programmed to control electric door strikes, magnetic locks, door & gate operators, or barrier gates.

The system utilizes hands-free, full-duplex telephone communications between visitors and residents for granting access.

The system can be programmed locally using the keypad, remotely with a touch-tone telephone, or remotely using a computer equipped with a modem and a web browser.

### Features:

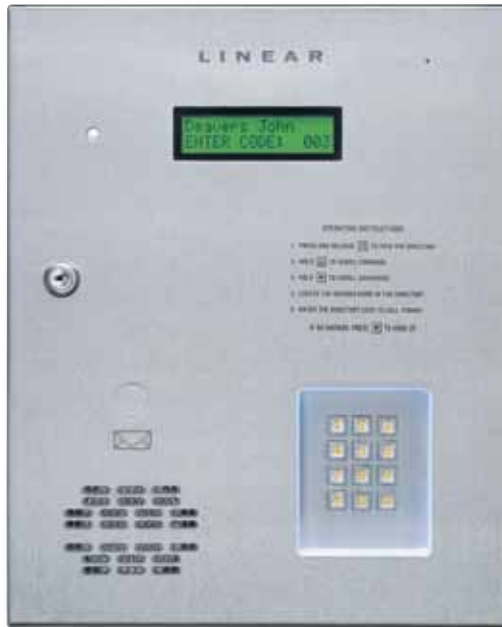
- Economically priced
- Stainless steel front panel
- Telephone-style keypad with surround lighting
- Up to 250-user capacity
- Accepts up to 500 entry codes
- Built-in RF receiver
- Up to 500 block-coded or 500 individually enrolled transmitters
- 2-Line, 16-character LCD display
- Many installation choices: surface, recessed, gooseneck
- Built-in modem for remote programming
- Multiple programming methods: from keypad, from touch-tone telephone, from web browser
- Two configurable output relays
- Applications include apartment buildings, condominiums, dorms, hospitals
- RF frequency: 318 MHz
- 10.75" W x 12.75" H x 3.5" D



# 18 Telephone Entry Systems

## AE1000PLUS Commercial Telephone Entry System with Access Control

• ORDER # ACP00951



The Model AE1000Plus Commercial Telephone Entry System with Access Control is designed for use as a primary access control device for gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings, and recreational facilities.

Housed in a locked, rugged stainless steel faced enclosure, the AE1000Plus features a side-lit 12-key telephone-style keypad with bright, easy-to-read graphics, a backlit 2-line directory display with programmable welcome message, a built-in microphone, speaker, and provision for an optional Model CCM-1 Color CCTV Camera. The cabinet is monitored with a magnetic tamper switch.

The four relay output channels can be programmed to control electric door strikes, magnetic locks, door & gate operators, or barrier gates.

The system utilizes hands-free, full-duplex telephone communications between visitors and residents for granting access. Complete access control event logging, access time restriction, access location restriction, and administration functions are also available to manage the installation.

For easy programming, the AE1000Plus contains Linear's built-in browser-based AXNET software. The system can be programmed and maintained from any computer worldwide, without using dedicated computer software. The AE1000Plus is also compatible with Linear's powerful AccessBase2000 dedicated access control PC software.

The AE1000Plus is access network ready. AE1000Plus units can be interconnected with Linear's AM3Plus and AE2000Plus

Telephone Entry Systems through a 3-wire RS-485 or modem network. The AE1000Plus can be used in networks with the Legacy AM-3, AE-1000, and AE-2000 Telephone Entry Systems in installations programmed with AccessBase2000 software only.

Two Wiegand inputs are available for connection of 26-, 30-, or 31-bit Wiegand devices (card readers, etc.). Three sets of PBUS inputs are available for connection to Linear's line of remote accessories.

### Capabilities with AXNET Programming:

#### Programming using any PC and Internet browser software

- Up to 2,000 cardholders
- Up to 24 card blocks with up to 1,600 cards each (38,400 total)
- Up to 2,000 individually enrolled cards
- Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total)
- Up to 2,000 individually enrolled transmitters
- Up to 2,000 key codes
- Up to 2,000 telephone directory codes
- 2,500 event log entries per unit
- Up to eight access time zones
- Up to four PBUS devices per unit
- Up to four panels per installation
- Up to two Wiegand inputs

### Capabilities with AccessBase2000 Programming:

#### Programming using a dedicated PC and AccessBase2000 software

- Up to 10,000 cardholders grouped in sets
- Up to 24 card blocks with up to 1,900 cards each (45,600 total)
- Up to 20,000 individually enrolled cards
- Up to 24 transmitter blocks with up to 1,900 transmitters each (45,600 total)
- Up to 20,000 individually enrolled transmitters
- Up to 20,000 entry codes for cardholders
- Up to 10,000 telephone directory codes for cardholders
- 20,000 event log entries per unit
- Up to 31 access time zones
- Up to six PBUS devices per unit
- Up to two Wiegand inputs
- Up to eight panels per network (64 panels per installation)

### Features:

- Full control of four doors, each supporting request-to-exit and door status monitoring
- Housed in a locked, rugged stainless steel faced enclosure
- Side-lit 12-key telephone-style keypad
- Backlit 2-line directory display with programmable display messages
- Built-in microphone and speaker
- Built-In RF receiver
- Many installation choices: surface, gooseneck, and recessed (with TR-1000 Trim Ring)
- Programmable directory code length and talk time; extended talk time allowed per cardholder
- Direct input for two card readers; add AM-CRIs for more
- Local or remote programming using a PC
- Relay auto-lock/unlock schedules
- Automatic door relock when door sense input is used
- Extensive ESD and lightning protection of all inputs and outputs
- Cabinet tamper switch included; tamper events are tracked in the event log
- All data memory is non-volatile FLASH with data retention in excess of ten years
- RF frequency: 318 MHz
- 13" W x 16.75" H x 3.5" D

# Telephone Entry Systems 19

## AE2000PLUS Commercial Telephone Entry System with Access Control

• ORDER # ACP00952



The Model AE2000Plus Commercial Telephone Entry System with Access Control is designed for use as a primary access control device for gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings, and recreational facilities.

Housed in a locked, rugged stainless steel faced enclosure, the AE2000Plus features a lit keypad with bright, easy-to-read graphics, a large backlit display with programmable welcome message, a built-in microphone, speaker, and provision for an optional Model CCM-1 Color CCTV Camera. The cabinet is monitored with a magnetic tamper switch.

The four relay output channels can be programmed to control electric door strikes, magnetic locks, door & gate operators, or barrier gates.

The system utilizes hands-free, full-duplex telephone communications between visitors and residents for granting access. Complete access control event logging, access time restriction, access location restriction, and administration functions are also available to manage the installation.

For easy programming, the AE2000Plus contains Linear's built-in browser-based AXNET software. The system can be programmed and maintained from any computer worldwide, without using dedicated computer software. The AE2000Plus is also compatible with Linear's powerful AccessBase2000 dedicated access control PC software.

The AE2000Plus is access network ready. AE2000Plus units can be interconnected with Linear's AM3Plus and AE1000Plus Telephone Entry Systems through a 3-wire RS-485 or modem network. The AE2000Plus can be used in networks with the

Legacy AM-3, AE-1000, and AE-2000 Telephone Entry Systems in installations programmed with AccessBase2000 software only.

Two Wiegand inputs are available for connection of 26-, 30-, or 31-bit Wiegand devices (card readers, etc.). Three sets of PBUS inputs are available for connection to Linear's line of remote accessories.

### Capabilities with AXNET Programming: Programming using any PC and Internet browser software

- Up to 2,000 cardholders
- Up to 24 card blocks with up to 1,600 cards each (38,400 total)
- Up to 2,000 individually enrolled cards
- Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total)
- Up to 2,000 individually enrolled transmitters
- Up to 2,000 key codes
- Up to 2,000 telephone directory codes
- 2,500 event log entries per unit
- Up to eight access time zones
- Up to four PBUS devices per unit
- Up to two Wiegand inputs
- Up to four panels per installation

### Capabilities with AccessBase2000 Programming: Programming using a dedicated PC and AccessBase2000 software

- Up to 10,000 cardholders grouped in sets
- Up to 24 card blocks with up to 1,900 cards each (45,600 total)
- Up to 20,000 individually enrolled cards
- Up to 24 transmitter blocks with up to 1,900 transmitters each (45,600 total)
- Up to 20,000 individually enrolled transmitters
- Up to 20,000 entry codes for cardholders
- Up to 10,000 telephone directory codes for cardholders
- 20,000 event log entries per unit
- Up to 31 access time zones
- Up to six PBUS devices per unit
- Up to two Wiegand inputs
- Up to eight panels per network (64 panels per installation)

### Features:

- Full control of four doors, each supporting request-to-exit and door status monitoring
- Housed in a locked, rugged stainless steel faced enclosure
- Articulated, double-locking stainless steel front panel
- Temperature-compensated, backlit VGA resolution LCD display
- Backlit keys
- Built-in microphone and speaker
- Built-in RF receiver
- Many installation choices: surface, gooseneck, and recessed (with TR-2000 Trim Ring)
- Programmable directory code length and talk time; extended talk time allowed per cardholder
- Direct input for two card readers; add AM-CRIs for more
- Local or remote programming using a PC
- Relay auto-lock/unlock schedules
- Automatic door relock when door sense input is used
- Extensive ESD and lightning protection of all inputs and outputs
- Cabinet tamper switch included; tamper events are tracked in the event log
- All data memory is non-volatile FLASH with data retention in excess of ten years
- RF frequency: 318 MHz
- 15.25" W x 18.75" H x 4" D

# 20 Telephone Entry Systems

## RE-1N & RE-1SS

### Residential Telephone Entry System

- ORDER # ACP00892 (RE-1N/Nickel Finish)
- ORDER # ACP00896 (RE-1SS/Stainless Finish)



The Model RE-1 Residential Telephone Entry System is designed for residential or light commercial access control applications. The speakerphone, keypad, radio receiver, and optional black & white video camera are housed in a rugged enclosure that can be mounted to a pedestal or bolted directly to a wall. The die-cast keypad keys have bright, easy-to-read graphics and are lit with overhead lights. The two operation buttons, CALL and HELP, are machined for heavy-duty reliability.

#### Operation

Arriving visitors will approach the unit and place a call to the residence by pressing the CALL button. The RE-1 will acquire the residence's local telephone line and generate distinctive rings to the house telephones. The resident, knowing that the distinctive ring is originating from the access area, can answer any house telephone and converse with the visitor. If the resident decides to grant access to the visitor, they can activate either output relay in the RE-1 by pressing a key on the telephone's keypad. If the resident decides not to grant access, hanging up or pressing a key will disconnect the visitor's call.

#### Call Waiting

If the resident is using the telephone at the time a visitor calls, the RE-1 will sound beeps on the telephone line to announce that a visitor is calling. The resident can press a key on the telephone to place the outside caller on

hold and communicate with the visitor. After granting or denying access to the visitor, the outside caller will be reconnected to the resident.

#### Call Forwarding

Programmable call forwarding allows the RE-1 to dial any selected telephone number when a visitor presses the CALL button. For example, with call forwarding enabled, the RE-1 could dial a cell phone to contact the resident while outside or away from the residence. The resident will be able to communicate with the visitor and grant or deny access from the remote telephone.

#### Alternate Numbers

For installations where multiple residences exist inside the same controlled opening (such as a guest house or granny flat), three alternate calling numbers can be programmed. The alternate numbers can be called by entering a short code at the keypad.

#### Local Control

The resident can issue control commands from the local telephones without a call from a visitor. By dialing a specific series of digits, the resident can control either of the two relays. The resident can also initiate voice communications with the entry system.

#### Access Methods

Up to 100 entry codes from one to six digits in length can be programmed. Each entry code can activate either, or both, of the relay outputs. Linear's Model AM-KP Keypad can be used as a secondary remote keypad for the RE-1. Up to 24 sets of block-coded MegaCode transmitters (up to 100 transmitters total) can be used to gain access through the RE-1's built-in radio receiver. Each transmitter can be individually suspended or re-activated. Facility codes can be programmed to identify each block of transmitters. Programming of individual (non-block-coded) transmitters is not supported by the RE-1.

#### System Features:

##### Time Zones

The RE-1 contains an internal clock and calendar. Seven programmable "time zones" allow setting time periods to schedule system functions. Each time zone can be active or inactive on certain days. Keypad entry codes, wireless transmitters, automatic access control, call forwarding, and the "Do Not Disturb" feature can each be set to only

be active during a specific time zone period. Up to ten "holiday" days can be programmed. Each of the seven time zones can be set to be active or inactive during a holiday.

#### Event Log

An access log of up to 450 events is stored in the unit's memory. System activity is logged as it occurs with the date and time of the event. The access log data can be retrieved locally, or remotely with a computer through the RE-1's built-in modem.

#### Local & Remote Programming

The system's built-in programming software can be accessed on-site, or off-site using a computer with any Internet browser. The software's graphic display of each of the programming steps makes programming easy. Without a computer, the RE-1 can be programmed with its main keypad, from any local telephone connected to the same line, or by calling from any remote telephone. The EEPROM memory retains all entry codes, transmitter information, and programming, even without power.

#### Obstacle Detection

Linear's Model MGT safety edge transmitter is compatible with the RE-1. This MGT detects and transmits obstacle events to the RE-1 receiver. Obstacle signals from an MGT transmitter will activate Relay #2.

#### Features:

- Dramatic contemporary styling
- Cast housing; stainless steel or nickel finish
- Downlighting
- Voice prompts, user-friendly, owner-friendly
- Two programmable outputs control two openings
- Obstacle reverse, alarm shunt
- Optional low-light CCTV camera kit (Model RE-BWC1)
- Provisions for Knox Box
- Simple to program and maintain through on-board keypad, touch-tone telephone, or computer with modem
- 450 event memory log
- Supports 100 entry codes
- Supports 100 block-coded transmitters
- Applications include single residence, commercial sites, employee parking
- Built-in superheterodyne radio receiver
- MegaCode format
- Operating frequency: 318 MHz
- Backup battery ready
- 6.45" W x 10.81" H x 3.74" D



# Telephone Entry Systems 21

## RE-2N & RE-2SS

### Residential Telephone Entry System

- ORDER # ACP00910 (RE-2N /Nickel Finish)
- ORDER # ACP00919 (RE-2SS /Stainless Finish)



The Model RE-2 Residential Telephone Entry System is designed for residential or light commercial access control applications. The speakerphone, keypad, radio receiver, and optional color video camera are housed in a rugged enclosure that can be mounted to a pedestal, bolted directly to a wall, or mounted recessed in a wall with the optional trim ring. The die-cast keypad keys have bright, easy-to-read graphics, and they are lit with overhead lights. The two operation buttons, CALL and HELP, are machined for heavy-duty reliability.

#### Operation

Arriving visitors will approach the unit and place a call to the residence by pressing the CALL button. The RE-2 will acquire the residence's local telephone line and generate distinctive rings to the house telephones. The resident, knowing that the distinctive ring is originating from the access area, can answer any house telephone and converse with the visitor. If the resident decides to grant access to the visitor, they can activate either output relay in the RE-2 by pressing a key on the telephone's keypad. If the resident decides not to grant access, hanging up or pressing a key will disconnect the visitor's call.

#### Call Waiting

If the resident is using the telephone at the time a visitor calls, the RE-2 will sound beeps on the telephone line to

announce that a visitor is calling. The resident can press a key on the telephone to place the outside caller on hold and communicate with the visitor. After granting or denying access to the visitor, the outside caller will be reconnected to the resident.

#### Call Forwarding

Programmable call forwarding allows the RE-2 to dial any selected telephone number when a visitor presses the CALL button. For example, with call forwarding enabled, the RE-2 could dial a cell phone to contact the resident while they are outside or away from the residence. The resident will be able to communicate with the visitor and grant or deny access from the remote telephone.

#### Alternate Numbers

For installations where multiple residences exist inside the same controlled opening (such as a guest house or granny flat), three alternate calling numbers can be programmed. The alternate numbers can be called by entering a short code at the keypad.

#### Local Control

The resident can issue control commands from the local telephones without a call from a visitor. By dialing a specific series of digits, the resident can control either of the two relays. The resident can also initiate voice communications with the entry system.

#### Access Methods

Up to 100 entry codes from one to six digits in length can be programmed. Each entry code can activate either, or both, of the relay outputs. Linear's Model AM-KP Keypad can be used as a secondary remote keypad for the RE-2. Up to 24 sets of block-coded MegaCode transmitters (up to 100 transmitters total) can be used to gain access through the RE-2's built-in radio receiver (antenna not included). Each transmitter can be individually suspended or re-activated. Facility codes can be programmed to identify each block of transmitters. Programming of individual (non-block-coded) transmitters is not supported by the RE-2.

#### System Features:

##### Time Zones

The RE-2 contains an internal clock and calendar. Seven programmable "time zones" allow setting time periods to schedule system functions. Each time zone can be active or inactive on certain

days. Keypad entry codes, wireless transmitters, automatic access control, call forwarding, and the "Do Not Disturb" feature can each be set to only be active during a specific time zone period. Up to ten "holiday" days can be programmed. Each of the seven time zones can be set to be active or inactive during a holiday.

#### Event Log

An access log of up to 450 events is stored in the unit's memory. System activity is logged as it occurs with the date and time of the event. The access log data can be retrieved locally, or remotely with a computer through the RE-2's built-in modem.

#### Local & Remote Programming

The system's built-in programming software can be accessed on-site, or off-site using a computer with any Internet browser. The software's graphic display of each of the programming steps makes programming easy. Without a computer, the RE-2 can be programmed with its main keypad from any local telephone connected to the same line, or by calling from any remote telephone. The EEPROM memory retains all entry codes, transmitter information, and programming, even without power.

#### Obstacle Detection

Linear's Model MGT safety edge transmitter is compatible with the RE-2. This MGT detects and transmits obstacle events to the RE-2 receiver. Obstacle signals from an MGT transmitter will activate Relay #2.

#### Features:

- Cast housing; stainless steel or nickel finish
- Downlighting
- Voice prompts, user-friendly, owner-friendly
- Two programmable outputs control two openings
- Obstacle reverse, alarm shunt
- Optional color CCTV camera kit (Model CCM-2)
- Provisions for Knox Box
- Simple to program and maintain through on-board keypad, touch-tone telephone, or computer with modem
- 450 event memory log
- Supports 100 entry codes
- Supports 100 block-coded transmitters
- Applications include single residence, commercial sites, employee parking
- Built-in superheterodyne radio receiver
- MegaCode format
- Operating frequency: 318 MHz
- Backup battery ready
- 10" W x 6.125" H x 4" D

# 22 Door/Gate Access Controllers

## AM3PLUS 4-Portal Access Controller

• ORDER # ACP00950



The Model AM3Plus 4-portal Access Controller is designed for use as a primary access control device for gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings, and recreational facilities.

Housed in a lockable plastic enclosure, the AM3Plus features a 2-digit LED display, nine status indicators, and four relay indicators with four relay activation pushbuttons. Three programming buttons, a reset button, and a power indicator are present. The enclosure is monitored with a magnetic tamper switch.

The system controls its four output relays by responding to various input devices that react to proximity cards, transmitters, and entry codes. The four relay output channels can be programmed to control electric door strikes, magnetic locks, door & gate operators, or barrier gates.

Access is granted or denied depending on the current user's authorization to gain access, and system settings that control groups of users or all users. Complete access control event logging, access time restriction, access location restriction, and administration functions are also available to manage the installation.

For easy programming, the AM3Plus contains Linear's built-in browser-based AXNET software. The system can be programmed and maintained from any computer worldwide, without using dedicated computer software. The AM3Plus is also compatible with Linear's powerful AccessBase2000 dedicated access control PC software.

The AM3Plus is access network ready. AM3Plus units can be interconnected with Linear's AE1000Plus and AE2000Plus Telephone Entry Systems through a 3-wire RS-485 or modem network. The AM3Plus can be used in networks with the Legacy AM-3, AE-1000, and AE-2000 Telephone Entry Systems in installations programmed with AccessBase2000 software only.

Two sets of Wiegand inputs are available for connection to 26-, 30-, or 31-bit Wiegand devices (card readers, etc.). Two sets of PBUS inputs are available for connection to Linear's line of remote accessories.

### Capabilities with AXNET Programming:

#### Programming using any PC and Internet browser software

- Up to 2,000 cardholders
- Up to 24 card blocks with up to 1,600 cards each (38,400 total)
- Up to 2,000 individually enrolled cards
- Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total)
- Up to 2,000 individually enrolled transmitters
- Up to 2,000 key codes
- Up to 2,000 telephone directory codes (when networked with AE1000Plus or AE2000Plus Telephone Entry System)
- 2,500 event log entries per unit
- Up to eight access time zones
- Up to four PBUS devices per unit
- Up to two Wiegand inputs
- Up to four panels per installation

### Capabilities with AccessBase2000 Programming:

#### Programming using a dedicated PC and AccessBase2000 software

- Up to 10,000 cardholders grouped in sets
- Up to 24 card blocks with up to 1,900 cards each (45,600 total)
- Up to 20,000 individually enrolled cards
- Up to 24 transmitter blocks with up to 1,900 transmitters each (45,600 total)
- Up to 20,000 individually enrolled transmitters
- Up to 20,000 entry codes for cardholders
- Up to 10,000 telephone directory codes for cardholders (when networked with AE1000Plus, AE-1000, AE2000Plus, or AE-2000 Telephone Entry System)
- 20,000 event log entries per unit
- Up to 31 access time zones
- Up to six PBUS devices per unit
- Up to two Wiegand inputs
- Up to eight panels per network (64 panels per installation)

### Features:

- Full control of four doors, each supporting request-to-exit and door status monitoring
- Direct input for two card readers; add AM-CRIs for more
- Local programming using a PC
- Remote programming using a PC (optional Model ACM-1 Modem required)
- Relay auto-lock/unlock schedules
- Automatic door relock when door sense input is used
- Extensive ESD and lightning protection of all inputs and outputs
- Cabinet tamper switch included; tamper events are tracked in the event log
- All data memory is non-volatile FLASH with data retention in excess of ten years
- RF frequency: 318 MHz
- 11.5" W x 12.5" H x 4" D

# Door/Gate Access Controllers 23

## AK-11 Exterior Digital Keypad

• ORDER # ACP00748



### Features:

- Self-contained keyless entry system ideal for airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities
- Rugged cast aluminum enclosure for indoor or outdoor mounting on a wall or pedestal
- Four independent outputs and timers: two Form "C" relays and two solid-state open collector outputs with unique programming per entry code
- Up to 480 programmable input codes of one to six digits each for activating either or both relays
- Two LED indicators show system status
- Key operating features include door sense

- input, inhibit input, request-to-exit input, alarm shunt output, timed anti-passback, and keypad lockout
- Programmable courtesy light illuminates keypad for one, two, three, or four minutes, or always on
- Tactile and audible feedback
- Keylock secured keypad to mounting backplate
- 4" W x 5.5" H x 3" D

## AK-2 Interior Digital Keypad

• ORDER # ACP00885



### Features:

- Designed for indoor applications
- Self-contained keyless entry system ideal for airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities
- Mounts in a single-gang electrical box using security screws; tool included
- Four independent outputs and timers: two Form "C" relays and two solid-state open collector outputs with unique programming per entry code
- Up to 480 programmable input codes of one to six digits each for activating either or both relays

- Two LED indicators show system status
- Key operating features include door sense input, inhibit input, request-to-exit input, alarm shunt output, timed anti-passback, and keypad lockout
- Rugged metal keys
- Built-in LED courtesy lights
- Tactile and audible feedback
- 3" W x 5" H x 3" D

## AK-21W Weather-Resistant Digital Keypad

• ORDER # ACP00750



### Features:

- Designed for outdoor applications
- Self-contained keyless entry system ideal for airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities
- Mounts in a single-gang electrical box using security screws; tool included
- Four independent outputs and timers: two Form "C" relays and two solid-state open collector outputs with unique programming per entry code
- Up to 480 programmable input codes of one to six digits each for activating either or both relays
- Two LED indicators show system status

- Key operating features include door sense input, inhibit input, request-to-exit input, alarm shunt output, timed anti-passback, and keypad lockout
- Rugged metal keys
- Built-in LED courtesy lights
- Tactile and audible feedback
- 3" W x 5" H x 3" D

## AK-31 Low-Cost Interior Digital Keypad

• ORDER # ACP00751



### Features:

- Self-contained keyless entry system ideal for airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities
- Mounts in a single-gang electrical box
- Four independent outputs and timers: two Form "C" relays and two solid-state open collector outputs with unique programming per entry code
- Up to 480 programmable input codes of one to six digits each for activating either or both relays
- Two LED indicators show system status

- Key operating features include door sense input, inhibit input, request-to-exit input, alarm shunt output, timed anti-passback, and keypad lockout
- Rugged metal keys
- Tactile and audible feedback
- 3" W x 5" H x 3" D

# 24 Door/Gate Access Controllers

## AKR-1 Exterior Digital Keypad with Radio Receiver

• ORDER # ACP00747



### Features:

- Self-contained keyless entry system ideal for airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities
- Rugged cast aluminum enclosure for indoor or outdoor mounting on a wall or pedestal
- Built-in radio receiver
- Four independent outputs and timers: two Form "C" relays and two solid-state open collector outputs
- Accepts 480 entry codes, 480 block-code transmitters, plus one fully supervised Model MGT Safety Edge Transmitter
- Two LED indicators show system status
- Key operating features include door sense input, inhibit input, request-to-exit input, alarm shunt output, timed anti-passback, and keypad lockout
- Downlight illuminates whenever keypad is used
- Tactile and audible feedback
- Keylock secures keypad to mounting backplate
- RF frequency: 318 MHz
- 4" W x 7" H x 3" D

## AP-5 Multipurpose Wireless Access Controller

• ORDER # ACP00953



wireless keypads. The AP-5 will retain its memory, even without power.

Three dry contact relay outputs are provided. One relay is dedicated for access control, another for obstacle detection, and the third programmable for either access or obstacle. Access relays can be set for timed or latch-on/latch-off toggle operation. The on or off toggle state of a relay is maintained even after power interruption. For entrapment detection, obstacle relays activate from MGT Safety Edge Transmitters and connect to the obstacle input of the access device. OPEN REQUEST input terminals are supplied for hardwired activation of the access devices with an external pushbutton or keyswitch.

The AP-5 monitors each MGT Safety Edge Transmitter for hourly status reports, tamper signals, and low-battery signals. A beep will sound every five seconds if a fault occurs and the trouble source can be displayed. An access transmitter must be activated twice to trigger the access relay if a supervisory trouble condition exists on any MGT Transmitter.

The AP-5 can be powered from 12-24 volts AC or DC. The Form "C" relay outputs can switch up to one amp each. An EARTH GROUND terminal is provided as a recommended connection for maximum lightning and static protection.

### Features:

- Ideal for gated communities, parking facilities, and industrial sites
- Easy to set up and use; up to 480 remotes can be programmed with a few keystrokes
- Easy to add, suspend, and delete transmitters through programming mode; no transmitter dipswitches to set
- Supports 480 block-coded transmitters or 238 individual transmitters/wireless keypad entry codes
- Supports six fully supervised MGT Safety Edge Transmitters
- Three output relays, one for access, one for obstacle, and one programmable for access or obstacle
- High-gain superheterodyne receiver
- RF frequency: 318 MHz
- 4.45" W x 5.75" H x 1.5" D (without antenna)

The AP-5 Multipurpose Wireless Access Controller is designed for a broad range of applications and can control one or two door strikes, mag-locks, barrier gates, automatic gates, or door operators. Its wireless design and small size fit a variety of access control requirements.

The unit's built-in high-gain superheterodyne receiver picks up transmitter signals from up to 500 feet away. The optional EXA-2000 Antenna can be used for additional range. Up to 480 Linear MegaCode transmitters and six Model MGT Supervised Safety Edge Transmitters can be programmed into the AP-5's memory. Up to 238 entry codes can be programmed for activation by one or more MegaCode



# Access Control Peripherals 25

## AM-KPI Interior Keypad

- ORDER # ACP00887



### Features:

- For use indoors
- Programmable downlighting
- Separate LEDs for "power/access granted" and "locked out" indication
- Mounts in a single-gang electrical box using security screws; tool included
- 3" W x 5" H x 3" D

## AM-KP Exterior Keypad

- ORDER # ACP00520



### Features:

- For use outdoors or indoors
- 1- to 8-digit user-selectable access codes
- Programmable downlighting
- Separate LEDs for "power/access granted" and "locked out" indication
- Pedestal or wall mounting
- Cast aluminum, environmentally protected housing
- Keylock secures keypad to mounting backplate
- 4" W x 5.5" H x 3" D

## AM-RPR Remote Proximity Receiver

- ORDER # ACP00560



### Features:

- Convenient, cost-effective, and reliable form of door or entrance control
- 2- to 3-inch radio transmitter read range
- Compatible with Linear radio-based access control systems
- 2-Color status LED indicates "power on" and "access granted"
- Installs in a single-gang electrical box
- Prevents transmitter from being detected by wrong receiver
- 2.7" W x 4.5" H x 2" D

## AM-RRR Remote Radio Receiver

- ORDER # ACP00500



### Features:

- Provides extended range for radio-based access control system
- Up to 500-foot radius radio coverage
- Weather-resistant housing for outside or indoor mounting
- Optional directional remote or omnidirectional remote antennas
- Integral radio gain control for adjustment of radio range
- 2-Color status LEDs indicate "power on" and "access granted"
- Radio LED detects transmission
- Power supplied by access controller
- Low-voltage cable allows remote mounting without signal loss
- RF frequency: 318 MHz
- 4.25" W x 6.25" H x 2.5" D (without antenna)

## AM-CRI Card Reader Interface

- ORDER # ACP00717



### Features:

- For equipping a Linear access control system with one or two Wiegand devices
- Card reader interface can be used with up to two 26- or 31-bit Wiegand input devices
- Power is supplied by system controller or external source for locally powered readers
- 4.45" W x 5.75" H x 1.5" D

### NOTE:

Models on this page are PBUS remote devices and are compatible with AE1000Plus, AE2000Plus, AM3Plus, and Legacy controllers only.

# 26 Access Control Peripherals

## AM-MIO

### Expansion Interface

• ORDER # ACP00561



#### Features:

- Expands the outputs of Linear's access controllers
- Six Form "C" relay outputs
- Five amp relay ratings
- Eight supervised loop inputs
- Expandable with AM-MIO RLM Modules
- 11.5" W x 12.5" H x 4" D

## AM-MIO RLM Input/Output Expansion Module

• ORDER # ACP00562



#### Features:

- Expands the inputs and outputs AM-MIO
- Six Form "C" relay outputs
- Five amp relay ratings
- Eight supervised loop inputs
- Manual trigger pushbuttons
- Relay activation indicators
- 5.65" W x 0.85" H x 2.6" D

## RGR Remote Genie Receiver

• ORDER # ACP00745



#### Features:

- Receives transmitter signal and outputs proprietary signal to controller, which grants or denies access
- Weather-resistant housing for outside or indoor mounting
- Optional directional remote or omnidirectional remote antennas
- Integral radio gain control for adjustment of radio range
- 2-Color status LEDs indicate "power on" and "access granted"
- Radio LED detects transmission
- Power supplied by access controller
- Low-voltage cable allows remote mounting without signal loss
- Supports GT-30 and GT-31 Transmitters
- PBUS remote device for access controllers
- 4.25" W x 6.25" H x 2.5" D

## WOR Wiegand Output Receiver

• ORDER # ACP00727



#### Features:

- Easy way to equip existing installations with radio transmitter access
- Keyless entry offers user convenience, safety, and security for triggering gates, barrier arms, and doors
- Ideal way to facilitate handicapped access
- Multi-button transmitters can double as personal emergency devices for triggering security alarms
- RF input/Wiegand output receiver supports 26-, 30-, and 31-bit data formats
- Wide selection of MegaCode transmitters
- Field-adjustable read range – from 5 to 500 feet
- Connects as easily as card readers; transmitters are added like cards, with no software changes required
- Facility and ID codes tailored to system requirements
- 4.25" W x 6.25" H x 2.5" D

## AM-PR Proximity Reader

• ORDER # ACP00740



#### Features:

- Works with both proximity tags and proximity cards
- Compatible with all Wiegand formats up to 40 bits
- Weather-resistant and vandal-resistant
- 4- to 6-inch read range
- Supports up to 65,000 cards
- Easy to install
- Integral LED confirms when user access is granted
- 1.6" W x 3.4" H x 0.6" D

## AM-PC Proximity Card

• ORDER # ACP00739



## AM-PT Proximity Tag

• ORDER # ACP00742



#### Features:

- Use with AM-PR Proximity Reader
- Passive operation
- Low-cost
- Durable
- Sold in lots of 25

# Access Control Credentials 27

## MDT-1B 1-Channel Block-Coded Visor Transmitter

• ORDER # ACP00721



### Features:

- Compatible with all Linear access receivers and controllers
- Superior transmission range
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Unique "Extra" top button
- High visibility operate LED
- Visor clip included
- Two type 2032 lithium batteries supplied
- RF frequency: 318 MHz
- 1.6" W x 4.2" H x 0.8" D

## MDT-2B 3-Channel Block-Coded Visor Transmitter

• ORDER # ACP00720

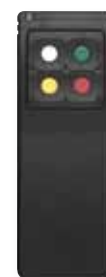


### Features:

- Compatible with all Linear access receivers and controllers
- Superior transmission range
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Unique "Extra" top button
- High visibility operate LED
- Visor clip included
- Two type 2032 lithium batteries supplied
- RF frequency: 318 MHz
- 1.6" W x 4.2" H x 0.8" D

## MDT-4B 5-Channel Block-Coded Visor Transmitter

• ORDER # ACP00722



### Features:

- Compatible with all Linear access receivers and controllers
- Superior transmission range
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Unique "Extra" top button
- High visibility operate LED
- Visor clip included
- Two type 2032 lithium batteries supplied
- RF frequency: 318 MHz
- 1.6" W x 4.2" H x 0.8" D

## MT-1B 1-Channel Block-Coded Visor Transmitter

• ORDER # ACP00877



### Features:

- Compatible with all Linear access receivers and controllers
- Superior transmission range
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Operate LED
- Visor clip included
- 9-Volt battery supplied
- RF frequency: 318 MHz
- 2.2" W x 3.8" H x 0.9" D

## MT-2B 2-Channel Block-Coded Visor Transmitter

• ORDER # ACP00746



### Features:

- Compatible with all Linear access receivers and controllers
- Superior transmission range
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Operate LED
- Visor clip included
- 9-Volt battery supplied
- RF frequency: 318 MHz
- 2.2" W x 3.8" H x 0.9" D

## MDKP Exterior Wireless Keypad

• ORDER # ACP00878



### Features:

- Built-in transmitter
- More than a million different codes
- Downlights for night or dark area visibility
- Keypad lockout timer and 30-second repeat feature
- MegaCode format
- RF frequency: 318 MHz
- 4" W x 7" H x 3" D

# 28 Access Control Credentials

## ACT-21B 1-Channel Block-Coded Key Ring Transmitter

• ORDER # ACP00615



### Features:

- Compatible with all Linear access receivers and controllers
- Supplied with quick-disconnect key ring
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Two lithium batteries supplied
- RF frequency: 318 MHz
- 1.25" W x 2.25" H x 0.48" D
- Sequentially coded

## ACT-22B 3-Channel Block-Coded Key Ring Transmitter

• ORDER # ACP00616A



## ACT-31B/31C 1-Channel Block-Coded Key Ring Transmitter

• ORDER # ACP00879  
• ORDER # ACP00939 (CUSTOM)



### Features:

- Available in factory-programmed blocks of transmitters with your choice of starting block-code number
- Compatible with all Linear access receivers and controllers
- Supplied with quick-disconnect key ring
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Two type 2016 lithium batteries supplied
- RF frequency: 318 MHz
- 1.25" W x 2.25" H x 0.48" D
- Minimum order quantity ten transmitters

## ACT-34B/34C 4-Channel Block-Coded Key Ring Transmitter

• ORDER # ACP00872  
• ORDER # ACP00940 (CUSTOM)



## ACT-31D TRANS PROX™ 1-Channel Block-Coded Key Ring Transmitter & Proximity Tag

• ORDER # ACP00954



### Features:

- Built-in proximity tag for use with AM-PR Reader
- Compatible with all Linear access receivers and controllers
- Supplied with quick-disconnect key ring
- Factory-programmed MegaCode format supports over 1,000,000 codes
- Two type 2016 lithium batteries supplied
- RF frequency: 318 MHz
- 1.25" W x 2.25" H x 0.48" D
- Minimum order quantity ten transmitters

## ACT-34D TRANS PROX™ 4-Channel Block-Coded Key Ring Transmitter & Proximity Tag

• ORDER # ACP00955





# Access Control Accessories 29

## EXA-1000 Omnidirectional Remote Antenna

• ORDER # AAE00198



### Features:

- Compatible with all Linear receivers with Type "F" antenna connector
- Receives signals in 288 to 320 MHz range
- Omnidirectional remote antenna
- Includes five feet of coax
- U-bolt for post mounting
- 3" W x 19.5" H x 6" D

## EXA-2000 Directional Remote Antenna

• ORDER # AAE00331



### Features:

- Paintable PVC housing
- Includes ten feet of coax
- Directional remote antenna
- Two mounting brackets included
- 21" W x 5" H x 1.5" D

## FT-1 Radio Interference Field Tester

• ORDER # LDR00001



### Features:

- Tests for RF interference on MegaCode-based access control panels and receivers
- Compact and lightweight with battery save feature
- Built-in speaker lets user hear what receiver hears
- Special tone simplifies transmitter testing
- Visual LED indication to confirm interference
- Power: 9-VDC battery (included)
- 2.5" W x 5.75" H x 1.25" D

## MDR/U 1-Channel Plug-In Receiver

• ORDER # DNR00100



### Features:

- Makes any garage door operator compatible with MegaCode transmitters
- Simple plug-in design
- Easy to install – one connection using 2-conductor wire
- Learn mode with 10-transmitter capacity
- Normally open contact activates for 0.5 second
- Power: 110 VAC +/- 10%, 60 Hz
- 2.52" W x 2.5" H x 1.61" D

## MGT Gate Safety Edge Transmitter

• ORDER # DNT00068



### Features:

- Activates one MegaCode receiver for stop or reverse safety edge
- No cables or coiled wires
- Mounting hardware (four screws) supplied
- Power: Two model 2450 lithium batteries
- Frequency: 318 MHz
- Codes: 1,000,000+ (factory precoded)
- 4" W x 4.28" H x 2.2" D

## GT-30 3-Channel Genie-Compatible Visor Transmitter

• ORDER # ACP00743



### Features:

- Three buttons and three channels to operate three independent gate, garage, and/or other access operations
- Test/operate LED
- Black case color
- Molded design to comfortably fit the hand
- Easy access to battery compartment
- Anti-code theft, rolling code technology
- Visor clip supplied
- Power: Two CR2016 lithium batteries
- Frequency: 390 MHz
- Code: Randomly selected from over 4 billion codes with each button press
- 3.75" W x 2.5" H x 0.875" D

## GT-31 3-Channel Genie-Compatible Key Ring Transmitter

• ORDER # ACP00870



### Features:

- Three buttons and three channels to operate three independent gate, garage, and/or other access operations
- Test/operate LED
- Black case color
- Molded-in hole to accept keychain or key ring
- Anti-code theft, rolling code technology
- Quick-disconnect key ring supplied
- Power: Long-life 12-volt battery
- Frequency: 390 MHz
- Codes: randomly selected from over 4 billion codes with each button press
- 2.5" W x 1.5" H x 0.625" D

# 30 Access Control Accessories

## CCM-1 Color Camera

• ORDER # ACP00904



### Features:

- Mounts inside AE-100, AE-500, AE1000Plus and AE2000Plus
- Field upgradable
- Color CCD camera
- Bracket for mounting inside access controller
- Plug-in connector for power and video

## CCM-2 Color Camera

• ORDER # ACP00936



### Features:

- Mounts inside RE-2N and RE-2SS
- Field upgradable
- Color CCD camera
- Bracket for mounting inside telephone entry system
- Plug-in connector for power and video

## RE-BWC1

Black & White Camera

• ORDER # ACP00886A



### Features:

- Mounts inside RE-1N or RE-1SS
- Field upgradable
- Black & white CCD camera
- Receives power from RE-1; no need to run additional power
- Contains infrared illuminators to allow visibility in complete darkness

## CPDM-1

Video Modulator for Access Cameras

• ORDER # AAE00436



### Features:

- Converts the access system's camera video signal to a UHF or CATV channel television signal
- A quartz crystal reference oscillator and PLL circuitry ensure drift-free performance
- A television connected to the modulator's output will receive the signal when the television is tuned to the modulator's programmed channel

## CAB-1 Metal Indoor Cabinet

• ORDER # ACP00420



## CAB-3 Metal Outdoor Cabinet

• ORDER # ACP00913



Note: AM3Plus unit not included

Note: AM3Plus unit not included

## GNB-1 Burial-Mount Gooseneck

• ORDER # ACP00907



### Features:

- Burial mount configuration
- Rugged, weather-resistant, powder-coated rolled steel construction
- Universal bolt pattern on base plate and faceplate fits all manufacturer's products
- 4" W x 74" H x 13" D

## GNC-1 Curb-Mount Gooseneck

• ORDER # ACP00906



### Features:

- Curb mount configuration
- Rugged, weather-resistant, powder-coated rolled steel construction
- Universal bolt pattern on base plate and faceplate fits all manufacturer's products
- 5.25" W x 44" H x 15.5" D

# Access Control Accessories

31

## TR-100 Trim Ring

- ORDER # ACP00941



### Features:

- Bendable mounting tabs
- Stainless steel finish matches AE-100 case
- Mounting hole size 10" W x 12" H

## TR-500 Trim Ring

- ORDER # ACP00908



### Features:

- Bendable mounting tabs
- Stainless steel finish matches AE-500 case
- Mounting hole size 11" W x 13" H

## TR-1000 Trim Ring

- ORDER # ACP00909



### Features:

- Bendable mounting tabs
- Stainless steel finish matches AE-1000 case
- Mounting hole size 13.25" W x 16.25" H

## TR-2000 Trim Ring

- ORDER # ACP00914

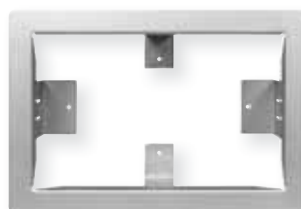


### Features:

- Bendable mounting tabs
- Stainless steel finish matches AE-2000 case
- Mounting hole size 15.5" W x 19" H

## TR-RE2N Trim Ring

- ORDER # ACP00915 (NICKEL FINISH)

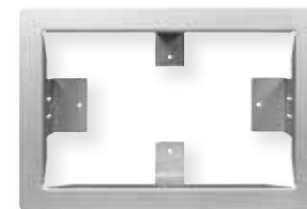


### Features:

- Bendable mounting tabs
- Nickel finish matches RE-2N case
- Mounting hole size 10.25" W x 6.25" H

## TR-RE2SS Trim Ring

- ORDER # ACP00917 (STAINLESS STEEL FINISH)



### Features:

- Bendable mounting tabs
- Stainless steel finish matches RE-2SS case
- Mounting hole size 10.25" W x 6.25" H

## ACM-1 Replacement Modem

- ORDER # ACP00905



### Features:

- Replacement socket modem
- Compatible with AM3Plus, AE1000Plus, and AE2000Plus

# 32 Compatibility Charts

## RECEIVERS AND CONTROL PANELS

TRANSMITTERS	RECEIVERS AND CONTROL PANELS																		
	D-67 (ALL)	DX-12	D-2R	D-4R	D-8C	DXR-701	DXR-702	DXSR-1504	DXSR-1508	DVS-1200	DVS-2400	DUAL-824	PERS-2400B	PERS-3600B	AL-1	SXR-64A	XR-1	XR-4	XR-16
D-21A	●	●	●	●	●														
D-22A	●	●	●	●	●														
D-22B, C, D	●	●	●	●	●														
D-23R	●	●	●	●	●														
D-24A	●	●	●	●	●														
D-4B	●	●	●	●	●														
ET-1B	●	●	●	●	●														
ET-2-12 or -19	●	●	●	●	●														
DXT-21						●	●	●	●	●	●	●	●	●	●	●			
DXT-23						●	●	●	●	●	●	●	●	●	●	●			
DXT-25						●	●	●	●	●	●	●	●	●	●	●			
DXT-31						●	●	●	●	●	●	●	●	●	●	●			
DXT-41						●	●	●	●	●	●	●	●	●	●	●			
DXT-42						●	●	●	●	●	●	●	●	●	●	●			
DXT-54						●	●	●	●	●	●	●	●	●	●	●			
DXT-61A						●	●	●	●	●	●	●	●	●	●	●			
DXT-81						●	●	●	●	●	●	●	●	●	●	●			
DXT-601						●	●	●	●	●	●	●	●	●	●	●			
DXS-10										●	●	●							
DXS-21						●	●	●	●	●	●	●	●	●	●	●			
DXS-23								●	●	●	●	●	●	●	●	●			
DXS-25								●	●			●							
DXS-31						●	●	●	●	●	●	●	●	●	●	●			
DXS-32						●	●	●	●	●	●	●	●	●	●	●			
DXS-54						●	●	●	●	●	●	●	●	●	●	●			
DXS-62						●	●	●	●	●	●	●	●	●	●	●			
DXS-64						●	●	●	●	●	●	●	●	●	●	●			
DXS-73							●	●	●	●	●	●	●	●	●	●			
DXS-80							●	●	●	●	●	●	●	●	●	●			
DXS-81							●	●	●	●	●	●	●	●	●	●			
DXS-91							●	●	●	●	●	●							
LMT-1/303																●			
ST-23A																●			
T-90D																●			
TGB-96																●			
TMD-90																●			
TX-91,-92,-94																●			
XT-1																	●	●	●
XT-1H																	●	●	●
XT-2H																	●	●	●
XT-4																	●	●	●
XT-4H																	●	●	●

● = preferred product choice

## ACCESS CONTROLS, ENTRY SYSTEMS &amp; PERIPHERALS

## TRANSMITTERS

	AE-100	AE-500	AE1000PLUS	AE2000PLUS	RE-1 (ALL)	RE-2 (ALL)	AM3PLUS	AP-5	AKR-1	AM-RPR	AM-RRR	AM-CRI	AM-MIO	RGR	AM-PR	MDR/U
AM-KPI		●	●	●			●									
AM-KP		●	●	●			●									
AM-PR			●	●			●					●				
AM-RPR			●	●			●									
AM-RRR			●	●			●									
AM-CRI			●	●			●									
AM-MIO			●	●			●									
AM-MIO RLM			●	●			●						●			
RGR			●	●			●									
WOR			●	●			●					●				
ACT-21B		●	●	●	●	●		●	●	●	●					●
ACT-22B		●	●	●	●	●		●	●	●	●					●
ACT-31B		●	●	●	●	●		●	●	●	●					●
ACT-31C		●	●	●	●	●		●	●	●	●					●
ACT-31D		●	●	●	●	●		●	●	●	●					●
ACT-34B		●	●	●	●	●		●	●	●	●					●
ACT-34C		●	●	●	●	●		●	●	●	●					●
ACT-34D		●	●	●	●	●		●	●	●	●					●
MDT-1B		●	●	●	●	●		●	●	●	●					●
MDT-2B		●	●	●	●	●		●	●	●	●					●
MDKP		●	●	●	●	●		●	●	●	●					●
AM-PC															●	
AM-PT															●	
MGT		●	●	●	●	●		●			●					
GT-30														●		
GT-31														●		
EXA-1000		●	●	●	●	●		●			●			●		
EXA-2000		●	●	●	●	●		●			●			●		
CCM-1		●	●	●												
CCM-2						●										
RE-BWC1					●											
CPDM-1		●	●	●	●	●										
CAB-1							●									
CAB-3							●									
GNB-1	●	●	●	●	●	●			●							
GNC-1	●	●	●	●	●	●			●							
TR-100	●															
TR-500		●														
TR-1000			●													
TR-2000				●												
TR-RE2N						●										
TR-RE2SS						●										
ACM-1			●	●			●									
AK-11	STAND-ALONE KEYPADS															
AK-21W																
AK-31																

# 34 Linear Training

## Training Outline & Types

Technical Services is the group within Linear LLC that administers Continuing Education Unit (CEU) activities, courses, and programs. Technical training ensures the education and meets the goals of the dealers, distributors, and others who sell the Linear LLC branded products.

The technical training manager reviews the policies and procedures and ensures they meet accreditation requirements for CEUs. Linear LLC accredits their training through the National Burglar & Fire Alarm Association (NBFAA) service of the National Training School. The review process for every program occurs every two years at a minimum.

Linear will ensure the training provides adequate resources to support a positive learning environment. Instructors will be available to provide assistance and support to students.

When students meet the requirements for satisfactory completion of the training program, they are issued a certificate that indicates the title of the program, the name of the instructor, and the number of CEUs for the program. Training in Texas will result in an additional form with the instructors' numbers annotated for state requirements.

Linear maintains the records for approximately one year and can reissue certificates if desired. Information collected during training is only for the use of documenting students attending class and is not sold, released, or transferred for any other purposes.

Linear training is provided by qualified personnel with many years of experience in the field and competence in their topic of instruction. They also have knowledge and skill in instructional methods and learning processes. Feedback is encouraged and collected. Instruction is provided with no discrimination, and the trainers are not compensated for any activity other than for classroom instruction.

### Linear offers three types of training through [learnlinear.com](http://learnlinear.com)

#### **Type 1:** Instructor Lead Training—On-Site Training

We have product trainers and a sales management team who travel the U.S. to provide training at your facility or at a local distributor. This is a more traditional, classroom-style training option.

Linear programs are divided into four phases of courses. Many of Phase 3 and Phase 4 classes are NTS-approved for installers needing Continuing Education Units (CEUs).



**Phase 1:** Marketing and Investment Strategies—This presents how our products fit into the market segment. It will outline market share and profitability while showing projected future growth and outlook of product segments. It will show how to leverage your investment into our broad product offerings and maximize profitability.

**Phase 2:** Sales Training—This covers creating the right expectations for your customers. It goes over qualification questions to ask in order to qualify design to meet customer expectations. It also explains features and advantages by product, enabling you to differentiate products in a way your customer will understand.

**Phase 3:** Design and Installation Training—This is a brief product overview and explanation of installation and rough-in guidelines. The owner's manuals are reviewed (more than just packing material!). Configuration and system testing is illustrated. Instruction is given to show the customer how to use their new products in their home.

**Phase 4:** Troubleshooting and Advanced Theory—Very specific installation techniques are explained. Navigating troubleshooting guides and EMI and RFI influences are explored. Chronic problem installations and their root causes, as well as steps required that help avoid future call outs, are illustrated.

**Type 2:** Instructor Lead Training—Computer-Based Training  
A product trainer remotely teaches a course using teleconferences and computer software to present the material. Since a live instructor is leading the training, these classes are scheduled.

Linear offers the ability to take most of the on-site training presentations over the Internet, with an instructor leading the training.

#### **Type 3:** Self-Paced Training—Computer-Based

This is similar to taking online college classes. From the convenience of either home or office, you can take classes at your own pace and return to previous sessions should you need to stop mid-class.

If you have any questions, feel free to email at:

[techsupport@linearcorp.com](mailto:techsupport@linearcorp.com) or call **1-800-421-1587** and ask for our training manager.

## Linear's Technical Services Support



Linear's Technical Services Department provides telephone support for our expanding product line. The group supports nearly 1,000 products in various types of installations and applications. Application engineers can assist dealers and installers with their technical questions regarding every Linear product.

The application engineers answer questions regarding equipment installation, programming, system design, troubleshooting, and inter-system compatibility. Questions could be about radio controls, security systems, access controls, door operators, gate operators, audio or video equipment, and accessories. Often, installers simply need fast help with their installation issues so they can complete the job and continue on to the next installation. Linear's quality and professional technical support staff provides that service.

The new extended Technical Services Department telephone service hours (5:00 am to 4:30 pm Pacific Time) will be of value to nationwide installers and company representatives alike. West Coast callers will be able to call as early as 5:00 am local time, and East Coast callers will be able to call as late as 7:30 pm local time.

Linear Technical Services provides direct access to the people who know Linear products best. To speak with a Linear expert, call 1-800-421-1587 and press 3.



## 36 Manufacturing Facilities

### State-of-the-Art Manufacturing Facility



Sound plans implemented with quality products and solutions to support them are critical to success in today's competitive global business environment. With a state-of-the-art manufacturing facility in China, Linear uses industry-leading manufacturing technologies that enable production of quality products that consistently raise the standard in home technology and provide a value you can depend on in today's competitive marketplace.

High-performance production tools, advanced technologies and techniques in design and testing, integrated circuitry, microchip, and surface mount technology, as well as the latest electronic component assembly and quality assurance techniques are features you can depend on from Linear manufacturing. Linear's Hong Kong manufacturing operation boasts a staff of more than 1,300 and is ISO 9001:2000 quality system certified.



## West & East Distribution Centers



To streamline order fulfillment and shorten delivery time for Linear distributors and dealers, Linear LLC maintains two fully stocked regional distribution facilities in Vista, California, and Summerville, South Carolina.

Linear's Western Distribution Center has 90,000 square feet with 19 shipping docks. Linear's Eastern Distribution Center boasts 175,000 square feet with 25 shipping docks and is the third largest UPS shipper in the Charleston, South Carolina, area.

Both warehouse locations are completely equipped with shipping, receiving, and quality control facilities, and they each stock tens of thousands of Linear products for security, entry systems, communications, audio/video/data, central vacuum systems, and personal emergency response. Each warehouse team receives dozens of cargo containers each month, processes hundreds of orders daily, and ships thousands of packages with Linear goods to worldwide destinations each day.

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# Linear

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## Security Solutions

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