ECLYPSE[™] Connected Thermostat



Overview

The ECLYPSE Connected Thermostat (ECY-STAT) is geared towards new or existing rooftop unit, heatpump unit, fancoil unit and other zone control applications. It features a touchscreen interface, multiple connectivity options (both wired IP and Wi-Fi) for system communication, and *Bluetooth*[®] low energy (BLE) for mobile connectivity.

Features & Benefits

- Elegant and compact design, provides a modern appearance when installed in any environment
- A unique user experience with an intuitive interface to adjust temperature, fan speed, HVAC mode, and lighting/sunblinds via BACnet all from a single device
- Wired IP or Wi-Fi network connectivity provides options for both new and retrofit projects
- Using the *my* PERSONIFY mobile app simply pair your mobile device to the ECY-STAT through Bluetooth
- Comes with pre-loaded applications or customize the control sequence and interface for a specific application using EC-*gfx*Program
- 7-day scheduler supports single setpoint or occupancy schedule (single and dual setpoints) for standalone applications or global HVAC solutions
- Benefit from a built-in web server and ECLYPSE Designer viewer for managing smaller installations



Model Selection

Examples: ECY-STAT-R-W-WB

Model		Color	Connectivity
ECY-STAT	-R: Rooftop (RTU) or Heat Pump (HPU) Unit 4UI, 5DO, 3DUO		-WB: Wired IP, Wi-Fi and Bluetooth connection
	-F: Fan Coil Unit (FCU), 4UI, 5DO, 3DUO		
	-Z: Zone Control, 4UI, 3DO, 2DUO		

Product Specifications

Power Supply Input

Power Supply Input Voltage Range	24VAC/DC; ±15%; Class 2		Supports SNTP network time synchronization	
Typical Power Consumption		RTC Battery	20 hours charge time, 20 days	
Maximum Power Consumption			discharge time	
	excluded		Up to 500 charge / discharge cycles	
Frequency Range		Ethernet	1 × RJ-45 Ethernet port	
Overcurrent Protection	•	Display Characteristics		
Fuse Type	Up to 4A depending on output current consumption ¹		Full color, IPS, backlit, capacitive LCD touchscreen	
 Device power (Rc and Rh) and all other exceed 4A total consumption. 	er loads on the ECY-STAT should not	Display Resolution	High definition (320 × 480)	
Wired Communications			48.96 x 73.44 mm (1.93 × 2.89")	
Ethernet Connection Speed	10/100 Mbps	Languages	English, French, Spanish, Italian, German, Danish, Dutch,	
Addressing	IPv4 or Hostname			
BACnet Profile	BACnet Building Controller (B-		Polish, and Portuguese	
	BC), AMEV AS-A and AS-B	Mechanical		
BACnet Listing	BTL, WSP B-BC	Dimensions $(H \times W \times D)$	131.4 × 86.0× 28.0 mm (5.17 × 3.39 × 1.10")	
BACnet Interconnectivity	BBMD forwarding capabilities	Shipping Weight	0.55lbs (0.26 kg)	
BACnet Transport Laver	BACnet/SC routing (Beta) IP, BACnet/SC (Node; Beta)	Enclosure Material ¹		
Web Server Protocol			Plastic housing, UL94-V0	
Web Server Application		0	Wall mounting through included	
Interface	REGIAN		mounting holes	
Wireless Communications Bluetooth Version	4.2		sses comply with the RoHS directive and are ical and Electronic Equipment (WEEE)	
Bluetooth Frequency	2402 – 2480 MHz	Environmental		
Wi-Fi Communication Protocol	IEEE 802.11b/g/n	Operating Temperature	0°C to 40°C (32°F to 104°F)	
Wi-Fi Connection Types	Hotspot (default), Client, Access	Storage Temperature	-20°C to 50°C (-4°F to 122°F)	
	Point	Relative Humidity	0 to 90% Non-condensing	
Temperature Sensor		Ingress Protection Rating	IP20 (IEC 60549)	
Range	0°C to 50°C (32°F to 122°F)	Standards and Regulation	S	
Accuracy	Sensing component; ±0.20°C		EN61000-6-3: 2007+A1:2011	
	(±0.36°F) Overall accuracy; ±0.50°C	CE Immunity	EN61000-6-1: 2007	
Population	(±0.90°F) 0.10°C (0.18°F)	CE Radio	EN 300 328 V2.1.1 November 2016	
	0.10 C (0.18 F)	FCC	Compliance with FCC rules part	
Humidity Sensor	<12%, DI1 0% to 70%		15, subpart B, class B	
Resolution	<±3%: RH 0% to 70%	UL Listed (CDN & US)	UL916 Energy management equipment	
	1 70			
Hardware		FC (E LK (Uus wohs 🖄 🖽	
Processor	Sitara ARM processor with 3D acceleration		- 2002/98/IC	
CPU Speed	600MHz			
Memory	4GB Non-volatile Flash (applications & storage) 512MB RAM			
Real Time Clock (RTC)	Real Time Clock with rechargeable battery			

rechargeable battery

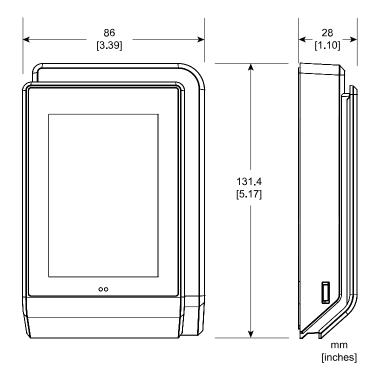
Universal Inputs (UI)

		0 1	
General		General	
	Universal; software configurable 12-Bit analog / digital converter	Output Type	Universal or digital; Software configurable
Contact		Analog Output Resolution Converter	
Type	Dry contact	Output Protection	Built-in snubbing diode to protect against back-EMF.
	Dry contact	Output Power Source	
Maximum Frequency	•	DUO1, DUO6, DUO7	Supplied by Rc
Minimum Duty Cycle	500ms On / 500ms Off		
0 to 10VDC		Digital Voltage Output	0 or 24VAC/VDC
	0 to 10VDC	Current DUO1, DUO6, DUO7	
	(40k Ω input impedance)	Max in-rush Current DUO1,	
0 to 20mA		DUO6, DUO7	
Range	0 to 20mA 165 Ω external resistor wired in parallel	ON/OFF PWM:	
	parallel	Time Period	Adjustable from 2 to 65 seconds
Resistance/Thermistor Range	0 to 350 KΩ	Voltage Output	0 or 24VAC/VDC with same
	0 to 350 KΩ 10KΩ Type 2, 3 (10KΩ @ 77⁰F; 25⁰C)		current as digital configuration and 0 or 12VDC with max source current of 5mA.
		Thermal Actuator Management	Adjustable warm up and cool down time
Digital Output (DO)		Floating:	
General		Minimum Pulse On/Off Time	500 milliseconds
Output Type	24VAC/DC; software configurable	Drive Time Period	Adjustable
Maximum Total Current for all	•	Analog 0 to 10VDC	
Outputs		Source:	
Output Power Source			0 to 10VDC linear
	Supplied by Rc	Source Current	Maximum 5 mA at 10VDC (minimum resistance 2kΩ)
DO4, DO5	Supplied by Rh	Sink:	,
DO8	Unpowered. Must be protected	Voltage Range	0 to 10VDC linear
	by an appropriately sized fuse of up to 1A and supplied by an	Sink Current	Maximum 2.5 mA at 1VDC (minimum resistance $4k\Omega$)
	external power supply < 24VAC/ DC +/15%; Class 2	Output protection	Output is internally protected against short circuits
Digital			.
	0 or 24VAC/VDC		
Current			
Max in-rush Current ON/OFF	SA		
PWM:			
Time Period	Adjustable from 2 to 65 seconds		
Thermal Actuator Management	Adjustable warm up and cool down time		
Floating:			
Minimum Pulse On/Off Time	500 milliseconds		
Duise Time D i I	A -P t - b L -		

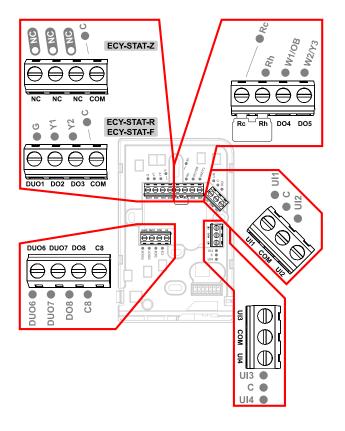
Digital-Universal Output (DUO)

Drive Time Period Adjustable

Dimensions



I/O Identification



Specifications subject to change without notice.

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