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 or dual setpoint or multi-state schedule for standalone applications
- Benefit from a built-in web server and ENVYSION viewer for managing smaller installations



Model Selection

Examples: ECY-STAT-R-W-WB

Model		Color	Connectivity
	-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

Voltage Range	24VAC/DC; ±15%; Class 2		cycles	
	6VA; all external loads excluded	Ethernet	1 × RJ-45 Ethernet port	
Maximum Power Consumption		Display Characteristics		
·····	excluded		Full color, IPS, backlit,	
Frequency Range	50 to 60Hz	1 5 51	capacitive LCD touchscreen	
Overcurrent Protection	External fuse required	Display Resolution	High definition (320 × 480)	
Fuse Type	Up to 4A depending on output	Effective Viewing Area (W x H)	48.96 x 73.44 mm (1.93 × 2.89")	
 Device power (Rc and Rh) and all other exceed 4A total consumption. 	current consumption er loads on the ECY-STAT should not	Languages	English, French, Spanish, Italian, German, Danish, Dutch, Polish, and Portuguese	
Wired Communications		Mechanical		
Ethernet Connection Speed			131.4 × 86.0× 28.0 mm (5.17 ×	
Ŭ	IPv4 or Hostname		3.39 × 1.10")	
BACnet Profile	BACnet Building Controller (B- BC), AMEV AS-A and AS-B		0.55lbs (0.26 kg)	
BACnet Listing	BTL, WSP B-BC	Enclosure Material ¹		
Ŭ	BBMD forwarding capabilities		Plastic housing, UL94-V0	
BACnet Transport Layer	÷ ,	Installation	8 8	
Web Server Protocol		1 All materials and manufacturing proce	mounting holes cesses comply with the RoHS directive and are trical and Electronic Equipment (WEEE)	
Web Server Application		marked according to the Waste Elec		
Interface		directive		
Wireless Communications			0°C to 40°C (32°F to 104°F)	
Bluetooth Version			-20°C to 50°C (-4°F to 122°F)	
Bluetooth Frequency		•	0 to 90% Non-condensing	
Wi-Fi Communication Protocol		Ingress Protection Rating	· ·	
Wi-Fi Connection Types				
		Standards and Regulations CE Emission EN61000-6-3: 2007+A1:2011		
Temperature Sensor			EN61000-6-1: 2007	
Range	0°C to 50°C (32°F to 122°F)		EN 300 328 V2.1.1 November	
Accuracy	Sensing component; ±0.20°C (±0.36°F)		2016	
Resolution	0.10°C (0.18°F)	FCC	Compliance with FCC rules part 15, subpart B, class B	
Humidity Sensor		UL Listed (CDN & US)	UL916 Energy management	
	<±3%: RH 0% to 70%		equipment	
Resolution	1%	FC CE Wus	ROHS I	
Hardware				
	Sitara ARM processor with 3D acceleration			
CPU Speed	600MHz			
Memory	4GB Non-volatile Flash (applications & storage) 512MB RAM			
Real Time Clock (RTC)	Real Time Clock with rechargeable battery Supports SNTP network time			

RTC Battery 20 hours charge time, 20 days discharge time

Up to 500 charge / discharge

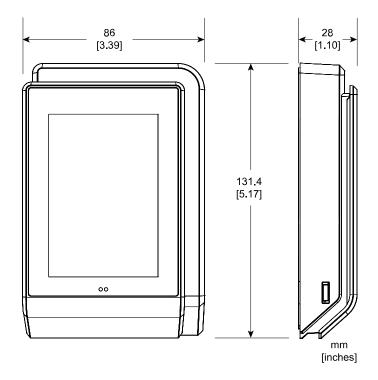
Universal Inputs (UI)

			•	,
	General		General	
		Universal; software configurable 12-Bit analog / digital converter	Output Type	Universal or digital; Software configurable
	Contact		Analog Output Resolution Converter	10-bit digital to analog Converter
		Dry contact		Built-in snubbing diode to protect against back-EMF.
	Counter	Dry contact		protect against back-Livin .
	Maximum Frequency		Output Power Source DUO1, DUO6, DUO7	Supplied by Rc
	1 5	500ms On / 500ms Off		Supplied by Ne
	0 to 10VDC		Digital Voltage Output	0 or 24VAC/VDC
		0 to 10VDC	Current DUO1, DUO6, DUO7	
		(40kΩ input impedance)	Max in-rush Current DUO1,	
	0 to 20mA		DUO6, DUO7	0,1
		0 to 20mA	ON/OFF	
		165 Ω external resistor wired in	PWM:	
		parallel	Time Period	Adjustable from 2 to 65 seconds
	Resistance/Thermistor		Voltage Output	0 or 24VAC/VDC with same
	•	0 to 350 KΩ		current as digital configuration and 0 or 12VDC with max
	Inermistor	10KΩ Type 2, 3 (10KΩ @ 77ºF; 25ºC)		source current of 5mA.
		20 0)	Thermal Actuator Management	
	Digital Output (DO)		Floating:	
	General		Minimum Pulse On/Off Time	500 milliseconds
		24VAC/DC; software	Drive Time Period	Adjustable
		configurable	Analog 0 to 10VDC	
	Maximum Total Current for all	4A max	Source:	
	Outputs		Voltage Range	0 to 10VDC linear
	Output Power Source		Source Current	Maximum 5 mA at 10VDC
		Supplied by Rc		(minimum resistance $2k\Omega$)
		Supplied by Rh	Sink:	
	DO8	Unpowered. Must be protected by an appropriately sized fuse		0 to 10VDC linear
		of up to 1A and supplied by an	Sink Current	Maximum 2.5 mA at 1VDC
		external power supply < 24VAC/	Output protoction	(minimum resistance 4kΩ) Output is internally protected
		DC +/15%; Class 2	Output protection	against short circuits
	Digital			0
		0 or 24VAC/VDC		
	Current			
	Max in-rush Current	3A		
	ON/OFF PWM:			
		Adjustable from 2 to 65 seconds		
	Thermal Actuator Management	,		
memai Actuator Management		down time		
	Floating:			
	Minimum Pulse On/Off Time	500 milliseconds		

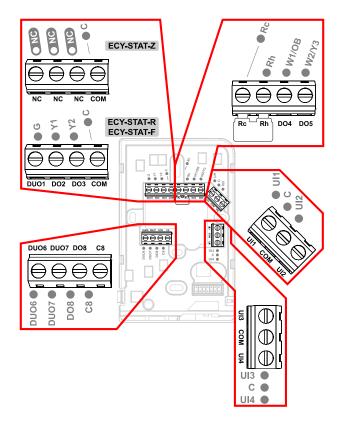
Digital-Universal Output (DUO)

Drive Time Period Adjustable

Dimensions



I/O Identification



Specifications subject to change without notice.

ECLYPSE, Distech Controls, the Distech Controls logo, EC-Net, Allure, and Allure UNITOUCH are trademarks of Distech Controls Inc. BACnet is a registered trademark of ASHRAE; BTL is a registered trademark of the BACnet Manufacturers Association. The Bluetooth[®] word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks is under license. All other trademarks are property of their respective owners. ©, Distech Controls Inc., 2020 - 2022 All rights reserved. Global Head Office - 4205 place de Java, Brossard, QC, Canada, J4Y 0C4 - EU Head Office - ZAC de Sacuny, 558 avenue Marcel Mérieux, 69530 Brignais, France