□ □ □ ECLYPSE™ Connected System Controller





Overview

The ECLYPSE Connected System Controller (ECY-CSC) is a modular and scalable platform used to control a wide range of HVAC applications. It supports multi-protocol communications, including BACnet/IP, and is a listed BACnet Building Controller (B-BC).

The ECY-CSC consists of a control, automation and connectivity server, power supply, and I/O extension modules.

This programmable controller provides advanced functionality, such as customizable control logic, Web-based design and visualization interface (ENVYSION embedded), logging, alarming, and scheduling.

Applications

The ECY-CSC is typically used as:

- A controller for medium/large sized Air Handling Units (AHU), central plant, lighting, power monitoring, and other applications.
- Small building server and equipment controller with embedded ENVYSION. For example, it can be used to control and serve a boiler room.

Features & Benefits

Connectivity

The different types of connections supported by the ECY-CSC are as follows:

IP wired connection

Internal switch with two Ethernet ports allows the controllers to be wired in a star or daisychain topology. With a daisy-chain topology:

- Fewer wire runs to a centralized switch are required, thereby achieving installation and cost reduction.
- A laptop can be connected to the second Ethernet port for direct programming, configuration, and commissioning using ECgfxProgram or ENVYSION.

IP wireless (Wi-Fi) connection

- Wi-Fi Client Connection to the building's existing Wi-Fi network or to another controller's Wi-Fi Hotspot or Access Point.
- Wi-Fi Access Point extending the building's wired IP network to your Wi-Fi Client devices.



 Wi-Fi Hotspot - your own wireless area network, for wireless communication between the controllers, or with a mobile device or laptop for configuration, commissioning and servicing.

Both IP wired and wireless (Wi-Fi) connection

The availability of both Ethernet ports and USB ports for the Wi-Fi Adapter, allows for simultaneous wired IP and Wi-Fi communication on the same controller, which means you can choose and combine these connection methods. For example, Wi-Fi can be used between two controllers to jump a large atrium.

Connect from anywhere

Control technicians, facility managers, occupants, and others can easily connect to the system, on-site or off-site, using the different available tools:

- ENVYSION to create and view the graphical interface
- □ EC-*gfx*Program to create custom control sequences
- myDC Control to view, edit, and configure system operating parameters

IP Communication

- Increased speed and improved handling of numerous trend logs that enable applications, such as advanced analytics that require a large amount of data.
- Experience faster response and save time when programming, configuring, creating and viewing graphics, and upgrading your system.
- Control technicians can connect the ECLYPSE Wi-Fi Adapter to the ECY-CSC thereby creating a Wi-Fi Hotspot network. The control technician can then connect wirelessly to the system using a mobile device or laptop, for faster, easier system configuration, programming, commissioning, and servicing.
- Hostname management allows the controller to be addressed by a nickname to facilitate network management.

Open to Web Services

With the RESTful API, the ECY-CSC's data can be accessed from different applications, such as energy dashboards, analytics tools, and mobile applications. The RESTful API documentation explains the implementation protocol for this interface.

HTML5 Visual Interface

The ECY-CSC comes embedded with both ENVYSION Studio and Viewer, and xpressENVYSION.

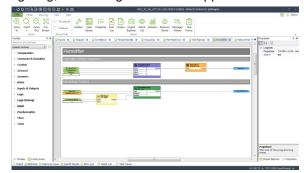


ENVYSION – Web-based graphic design and visualization interface

ENVYSION is a web-based graphic design and visualization interface used to create and deliver interactive graphical user interfaces and an optimal user experience for building owners and facility managers to better manage facility data.

Programmability

Supports Distech Controls' EC-gfxProgram, which makes Building Automation System (BAS) programming effortless, by allowing you to visually assemble building blocks to create a custom control sequence for any HVAC, lighting, or building automation application.



Batch EC-*gfx*Program Projects and Firmware Download

EC-*gfx*Program projects can be downloaded in batch to multiple controllers, for greater time savings. Batch firmware update can also be performed on multiple controllers.

Simplified Network Commissioning

The Xpress Network Utility saves you time and expense by giving you increased control over multiple ECLYPSE controllers through device discovery and batch operations such as configuring, programming, and updating multiple ECLYPSE controllers on the network.

In addition, with the embedded step by step Commissioning Wizard, all configuration operations can be setup and applied in one go.

Increase productivity using the xpress Network Companion mobile app, making it easier to identify and locate a controller on the network. Use the QR Code marked on ECLYPSE controllers to easily collect key controller data and to facilitate its network integration with xpress Network Utility.

Scalable and Modular

The ECY-CSC is sized to cost-effectively meet the requirements of any HVAC application from small to medium to large systems. The most capable Connected System Controller model can be expanded to support up to 20 input/output (I/O) modules (up to 320 I/Os) while being able to adapt to new requirements as the need arises.

A connecting cable is used to connect successive rows of modules within a controls' cabinet to provide power and communication.

ECY-RS485 communication module

An ECY-RS485 communication module adds two extra RS-485 trunks to support more BACnet MS/TP and Modbus RTU devices.

ECY-MBUS communication module

An ECY-MBUS communication module has one M-Bus port for meter integration, thus eliminating the need for a third-party gateway (from M-Bus to BACnet/IP).

BACnet/IP Device

The ECY-CSC is BTL-listed as a BACnet Building Controller (B-BC) and is certified WSP B-BC (Europe) and AMEV AS-A & AS-B (German-speaking countries). It supports BACnet/IP for faster communication in comparison to the traditional twisted pair communication bus.

Multi-Protocol Support

The ECY-CSC supports a range of communication protocols such as BACnet MS/TP, Modbus RTU, and Modbus TCP.

BACnet MS/TP and Modbus RTU communications are made by connecting directly to separate RS-485 ports. The ECY-CSC integrates up to three RS-485 ports when equipped with one ECY-RS485 extension module allowing the controller to support more than one trunk or communication protocol at a time.

MS/TP to IP routing

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Integrate full MS/TP trunks into a supervisory system like the EC-Net^{AX} Supervisor, without the need for other hardware components such as an external BACnet MS/TP to IP router.

Modbus RTU and TCP

Modbus RTU and TCP communication can be used to integrate a wide variety of Modbus devices such as power and water meters, Variable Frequency Drives, air flow sensors, and more, without the need for additional hardware such as a gateway.

FIPS 140-2 Level 1 Compliant

FIPS 140-2 Level 1 compliance provides an enhanced level of security to protect data the controller is collecting and sharing making it suitable for use in the most sensitive environments.

Weather Forecast

The weather forecast is directly available from the internet to be shown on a connected ECx-Display or to be used by the controller's code.

Smart Room Control Support

The Smart Room Control solution is an end-toend system for the control of HVAC equipment, lighting, and shades/sunblinds, achieving the highest levels of comfort for occupants while cutting costs from installation time and wiring/ material requirements to energy consumption. This solution combines:

- Lighting and shade/sunblind expansion modules to control lights (on/off or dimming) and shades/sunblinds (up/down and angle rotation).
- Multi-sensor combining motion and luminosity (Lux) sensors and an Infrared receiver that works with a convenient remote control
- □ The ECLYPSE platform is compatible with Distech Controls line of Bluetooth® low energy technology enabled devices (Allure UNITOUCH™ and EC-Multi-Sensor-BLE) and mobile application providing state-ofthe-art occupant management.
- Allure™ Series Communicating room sensors for increased occupant comfort settings using integrated sensors for temperature, humidity, CO₂, and motion.

Allure[™] Series Communicating Sensor Support

These controllers work with a wide range of sensors, such as the Allure Series Communicating Sensors that are designed to provide intelligent sensing and control devices for increased user experience and energy efficiency.

- □ Allure EC-Smart-Vue
- □ Allure EC-Smart-Comfort
- □ Allure EC-Smart-Air
- □ Allure UNITOUCH



Mobility

The controller can be remotely accessed to program, configure, or maintain the installation thus reducing costs associated with on-site visits. Through a mobile device or PC, a range of tasks can be performed using the following free-to-use tools and interfaces:

- ENVYSION web-based graphic design and visualization interface
- EC-gfxProgram graphical programming interface
- □ myDC Control mobile application

Hand/Off/Auto Switches and Potentiometers

The front assembly of Hand/Off/Auto (HOA) equipped I/O models allow users to override the control outputs for commissioning and maintenance purposes.

Universal outputs have potentiometers providing manual analog signal and output control to override voltage or current signal.

High-Efficiency Design

The power supply uses the latest high-efficiency switch-mode circuitry to make more power available to operate additional modules and for cooler operation.

Hot-Swappable Tool-Less Design and Unique Latching Mechanism

The I/O modules are hot-swappable for replacement without interrupting power and communications to other modules.

The front assembly of I/O modules separate from the wiring base by pushing the two latches up to unlock a module's front assembly and then opening and pulling the hinged gull-wing covers. The latch design locks the front assembly to the wiring base.

The hinged gull-wing design protects and cover the stacked dual row I/O terminal strips.



Ease of Installation

The ECY-CSC modules are plug & play devices. They are equipped with HD-15 connectors that transmits power and communications to the next module for fast and easy assembly.

I/O Status LEDs

The status LEDs on the I/O modules allows the user to confirm the status of the inputs/outputs and facilitate commissioning and troubleshooting.

Auto-Addressing

The auto-addressing feature eliminates the need to manually assign an address to each I/O module therefore reducing installation and configuration time.

Digital Inputs Up to 120Hz

The ECY-16DI module supports pulsed signals up to 120Hz for equipment status monitoring and alarm point monitoring, commonly used in energy metering applications.



Color-Coded, Rising Cage Terminals

Terminal blocks are uniquely identified and color-coded for clarity and to prevent wiring mistakes. The rising cage clamp terminal block connectors offer a more robust and secure wire connection, designed to withstand activity and vibrations.

Robust Protection

The I/O modules are protected against miswiring and faults to prevent damage caused by incorrect wiring or other mishaps.

The power supply module contains over-voltage and over-current output protection to protect the electronics in unstable power supply conditions and against mis-wiring.

Alarms, Trend Log, Schedule Support

Embedded alarms, trend log and schedule support allows for fully distributed data and logic providing a more robust system. Embedded trend logs simplify system troubleshooting when compared to a centralized system.

Email Notifications Service

Technicians & facility managers can receive automatic email notifications for system status and alarms to ensure faster system servicing and response time. Email notification text can be customized to provide pertinent information about the issue at hand.

Model Selection

The ECLYPSE Connected System Controller consists of a power supply, a control, automation and connectivity server, I/O extension modules, and communication modules to create a controller tailored to its application. The different models for each are shown in the tables below.

Power Supply

A power supply module must be added after each HD15 cable (see Accessories below).

ECY-PS24	24VAC/VDC power supply module for the ECLYPSE Connected System Controller.
ECY-PS100-240	100 to 240VAC power supply module for the ECLYPSE Connected System Controller.

Control, Automation and Connectivity Servers

Connected System Controller for medium/large sized AHU and plant applications and small building server/controller applications.

Model	With Embedded ENVYSION	Application	Maximum Number of Points Supported	BACnet MS/TP to IP Routing Support – Maximum Number of BACnet MS/TP Devices	Maximum Number of Modbus Devices (RTU or TCP)
ECY-S1000-28		Small size	28	No ¹	3
ECY-S1000E-28		equipment such as a large rooftop			
ECY-S1000-28-MS		unit or a small	28	Yes ²	3
ECY-S1000E-28-MS		AHU.			
ECY-S1000-48		Medium size	48	No ¹	10
ECY-S1000E-48		equipment such			
ECY-S1000-48-MS		as an AHU or a small size plant	48	Yes ²	10
ECY-S1000E-48-MS		room.			
ECY-S1000		Large size	3204	Yes ²	96³
ECY-S1000E		equipment such as large plant rooms and large data centers.			

^{1.} Upgrade and enable the functionality of your ECLYPSE controller's RS-485 ports with our capacity-based upgrade to ECYS1000-48MS.

^{2.} Up to 50 BACnet MS/TP devices recommended on each RS-485 port.

^{3.} Up to 32 Modbus RTU devices recommended on each RS-485 port. The maximum amount of Modbus TCP devices is limited to available system resources (too many devices can affect system performance).

^{4.} The ECY-S1000 models support a maximum of 320 points OR up to a maximum of 20 IO modules.

I/O Modules Selection

	Inp	uts									Ou	tputs								2,
	Digital			An	alo	g				Digital				Analog					tion	
	Quantity	Contact	Counter	120Hz Pulse Counting	0 to 10VDC	0 to 5VDC	0 to 20mA	Resistance	Thermistor	18VDC Power Supply	Quantity	0-277VAC / 0-30VDC Form-C, 10A	24VAC Triac, 0.5 A	0 or 12VDC	PWM	Floating	0 to 10VDC¹	0 to 20mA¹	НОА	Basic Power Consumption ² , W
ECY-8UI	8																			0.94
ECY-16DI	16																			0.94
ECY-6UO											6							UO1 UO2 UO3		0.94
ECY-6UO-HOA											6							UO1 UO2 UO3		0.94
ECY-8DOR											8									0.94
ECY-8DOR-HOA											8									0.94
ECY-4UI4UO	4										4							UO1 UO2 UO3		0.94
ECY-4UI4UO-HOA	4										4							UO1 UO2 UO3		0.94
ECY-8UI6UO	8										6							UO1 UO2 UO3		0.94
ECY-8UI6UO-HOA	8										6							UO1 UO2 UO3		0.94
ECY-8UI6DOT	8										6									0.94
ECY-8UI6DOT-HOA	8										6									0.94

^{1. 0} to 10VDC is available on UO1 to UO6. 0 to 20 mA is available on UO1, UO2, and UO3; this option is individually selected through an on-board DIP switch setting.

Communication Modules Selection

Communications Module	Description
ECY-RS485	ECLYPSE Communication module with two RS-485 ports for Modbus RTU or BACnet MS/TP.
ECY-MBUS	ECLYPSE Communication module with one M-Bus port, supporting up to 20 M-Bus meters. Upgrade license for the ECY-MBUS communication module to support up to 60 M-Bus meters.

Accessories

ECLYPSE HD15 Cable	6ft (1.8m) cable for Connected System Controller multiple-row panel installations. An HD15 cable must always be followed by a power supply module. For more information, refer to the Hardware Installation Guide.
ECLYPSE Wi-Fi Adapter	Wi-Fi Adapter for ECLYPSE Connected Controllers.

^{2.} External loads excluded. See the ECLYPSE Selection Tool to calculate the number of Input/Output Extension Modules that can operate with a power supply.

Product Specifications

Power Supply (ECY-PS24)

Power Supply Input

Rated Current Range

Voltage Range ————————————————————————————————————	24VAC/DC; ±15%; Class 2
Power Consumption —	60VA
Frequency Range	50 to 60Hz
Overcurrent Protection —	Field replaceable fuse
Fuse Type —	4A, fast-acting, 5 × 20mm (GMA-4A)
Power Supply Output	
DC Voltage	18VDC regulated

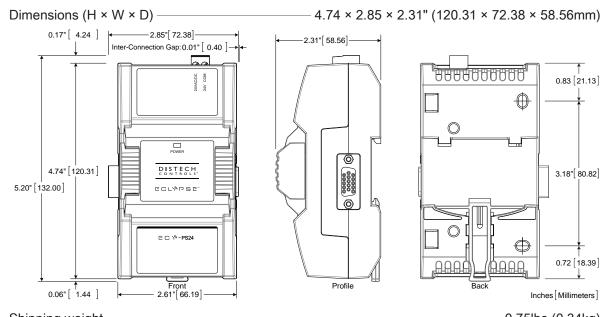
Rated Power

1. The total power consumption of all modules connected to the right of this power supply, and up to the next connected power supply, including any connected loads, must be less than this value. A separate transformer rated at 60VA minimum and 100VA maximum must be used for each ECY-PS24 power supply for it to operate at full capacity.

Hardware

Power Distribution Direction — Powered modules are connected to the right Backplane Bus — Pass-through connection for data and control signals Status Indicator — Green LED: power status

Mechanical



Shipping weight — 0.75lbs (0.34kg)

Mounting — DIN rail or screw mounting

Enclosure Material¹ FR/ABS

Enclosure Rating — Plastic housing, UL94-V0 flammability rating

Plenum rating per UL1995

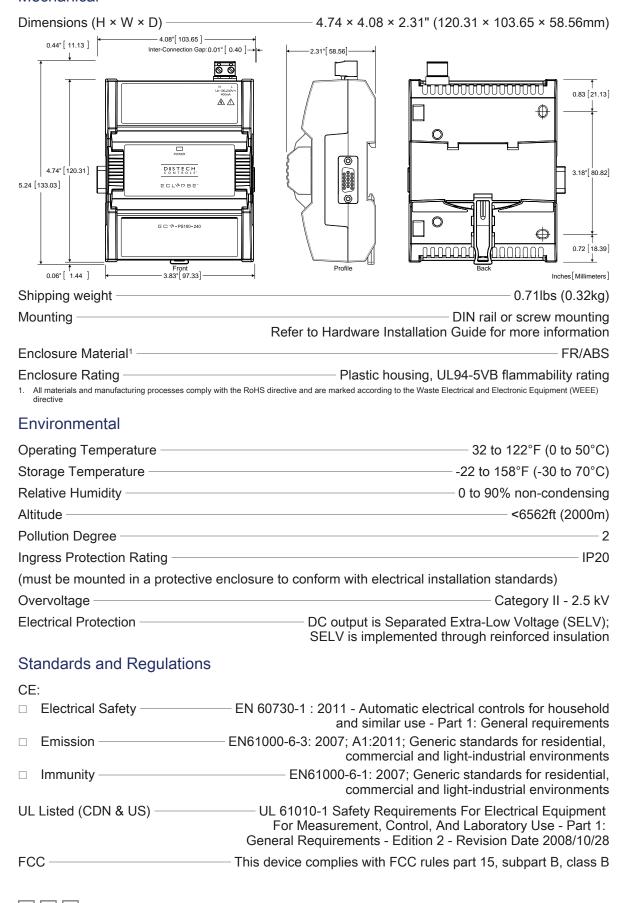
0 to 1.6A

All materials and manufacturing processes comply with the RoHS directive and are marked according to the Waste Electrical and Electronic Equipment (WEEE)
directive

Environmental

Storage Temperature Relative Humidity Ingress Protection Rating	
CE:	EN61000-6-3: 2007; A1:2011; Generic standards for residential,
□ Immunity —	commercial and light-industrial environments ————— EN61000-6-1: 2007; Generic standards for residential, commercial and light-industrial environments
	— This device complies with FCC rules part 15, subpart B, class B ———————————————————————————————————
Power Supply (ECY-PS	100-240)
Power Supply Input	
Input Current Frequency Range Standby Power consumption Overcurrent Protection	100 to 240 VAC Universal; +10%/-15% 400mA typical 50 to 60Hz <0.5W Field replaceable fuse g, high-breaking, 250VAC, 5 × 20mm (TF2.5AH250V, IEC60127-2)
Power Supply Output	
Rated Current Range Rated Power	18VDC regulated 0 to 2A 40W¹ ed to the right of this power supply, and up to the next connected power supply, including any connected
Hardware	

Mechanical



Control, Automation and Connectivity Server (ECY-S1000)

Power Supply Input

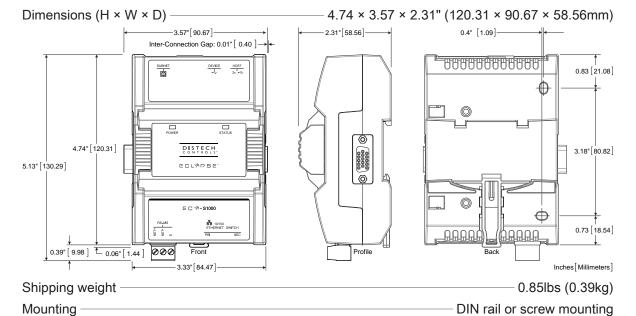
Voltage —	18VDC
Power Consumption —	8.9W; external loads excluded
Communications	
□ Addressing —	10/100 Mbps IPv4 or Hostname
PACnet Listing	et Building Controller (B-BC)), AMEV AS-A and AS-B (pending) BTL, WSP B-BC
	BBMD forwarding capabilities
BACHET Interconnectivity	BACnet/IP to BACnet MS/TP routing
BACnet Transport Laver	——————————————————————————————————————
	HTML5
	REST API
Supported BACnet MS/TP and Modbu	
• •	1 × RS-485 serial communications ports
Ea	ch RS-485 port supports one communication protocol at a time
□ RS-485 Wiring —	1-pair + Common/shield
□ RS-485 EOL Resistor —	Built-in
	9600, 19 200, 38 400, or 76 800 bps
	Controller's Web Configuration Interface
□ Modbus TCP —	Devices must be on the same subnet
Supported Wireless Connectivity:	
□ Wireless Adapter ————	Optional, USB Port Connection
	IEEE 802.11b/g/n and 802.11s
□ Wi-Fi Network Types —	Client, Access Point, Hotspot
Supported Smart Room Control	Components ¹
Maximum number of standard devices	s supported per controller combined — 12
□ Allure EC-Smart-Vue Series ——	-12^{2}
□ Allure EC-Smart-Comfort Series −	6
□ Allure EC-Smart-Air Series ———	62
□ EC-Multi Sensor —	4
	Light-DALI 4
□ ECx-Blind-4 / ECx-Blind-4LV ——	4
	ergy devices per controller combined ————6
□ Allure UNITOUCH —	2
□ EC-Multi-Sensor-BLE	4
A mixed architecture with state devices is not recommended	ndard room devices and Bluetooth low energy enabled .

^{2.} A controller can support a maximum of 2 Allure sensor models equipped with a CO2 sensor. Any remaining connected sensors must be without a CO2 sensor.

Hardware

Processor —	Sitara ARM processor
CPU Speed —	1GHz
Memory	4GB Non-volatile Flash (applications & storage)
	512MB RAM
Real Time Clock (RTC)	Real Time Clock with rechargeable battery
	Supports SNTP network time synchronization
RTC Battery —	20 hours charge time, 20 days discharge time
	Up to 500 charge / discharge cycles
Cryptographic Module —	FIPS 140-2 Level 1 Compliant
Communications Ports:	
□ Ethernet —	2 switched RJ-45 Ethernet ports
	BACnet/IP, Modbus TCP, NTP, and REST
□ USB Connections —	2 × USB 2.0 Ports
	1 × Micro-USB 2.0 Ports
	Screw terminals
	BACnet MS/TP or Modbus RTU
□ Subnet —	RJ-45
Status Indicators — Green LED: Power s	status, Subnet TX, RS-485 TX, and Ethernet Traffic
Orange LED: Controller s	tatus, Subnet RX, RS-485 RX, and Ethernet Speed

Mechanical



1. All materials and manufacturing processes comply with the RoHS directive and are marked according to the Waste Electrical and Electronic Equipment (WEEE) directive

Environmental

Enclosure Material

Enclosure Rating¹

C)perat	ting ⁻	Tempera	ture ————————————————————————————————————	-32	2 to	122	°F ((0 t	o 5	0°(C)	

Plenum rating per UL1995

Plastic housing, UL94-V0 flammability rating

- FR/ABS

Storage Temperature ————	-22 to 158°F (-30 to 70°C)
Relative Humidity —————	0 to 90% non-condensing
Ingress Protection Rating ———	IP20
Nema Rating —————	1
Standards and Regulations	
CE:	
□ Emission ————	EN61000-6-3: 2007+A1:2011; Generic standards for residential, commercial and light-industrial environments
□ Immunity ————	EN61000-6-1: 2007; Generic standards for residential, commercial and light-industrial environments
FCC —	This device complies with FCC rules part 15, subpart B, class B
UL Listed (CDN & US) ————	UL916 Energy management equipment
	BIL

I/O Modules

Power Supply Input

Voltage — 18VDC

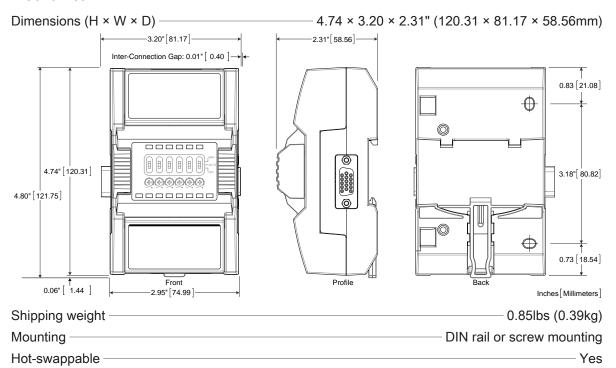
Power Consumption ——— Calculate power supply requirements with the ECLYPSE Selection Tool

Hardware

Status Indicator — Green LEDs: inputs and outputs

For ECY-8UI, ECY-16DI, ECY-6UO, ECY-6UO-HOA, ECY-4UI4UO, ECY-4UI4UO-HOA, ECY-8UI6UO, ECY-8UI6UO-HOA, ECY-8UI6DOT, & ECY-8UI6DOT-HOA Models:

Mechanical



Enclosure Material ———	FR/ABS
_	Plastic housing, UL94-V0 flammability rating; Plenum rating per UL1995 s comply with the RoHS directive and are marked according to the Waste Electrical and Electronic Equipment (WEEE)
Environmental	
Operating Temperature —	32 to 122°F (0 to 50°C)
	-22 to 158°F (-30 to 70°C)
-	0 to 90% non-condensing
	IP20 in accordance with IEC 60537
Nema Rating ————	1
Standards and Regulat	ions
CE:	
□ Emission ———	EN61000-6-3: 2007; A1:2011; Generic standards for residential, commercial and light-industrial environments
•	EN61000-6-1: 2007; Generic standards for residential, commercial and light-industrial environments
	This device complies with FCC rules part 15, subpart B, class B
UL Listed (CDN & US) ——	UL916 Energy management equipment
I/O Modules - Ur General	niversal Inputs (UI)
Current Input Ontion Soloot	Universal; software configurable on ————————————————————————————————————
	——————————————————————————————————————
	18VDC; 20mA maximum per 0 to 20 mA input
Contact	,
Туре —	——————————————————————————————————————
Counter	
Туре ———	Dry contact
	1Hz maximum,
Minimum Duty Cycle ———	500milliseconds On / 500milliseconds Off
0 to 10VDC	
Range ————	$=$ 0 to 10VDC (40k Ω input impedance)
0 to 5VDC	
Range ————	0 to 5VDC (high input impedance)
0 to 20mA	
Range ————	0 to 20mA
	249Ω DIP-switch configurable internal resistor

Resistance/Thermistor	
Range —	0 to 350 KΩ
Supported Thermistor Types —	Any that operate in this range
Pre-configured Temperature Sensor Typ	
□ Platinum —	10KΩ Type 2, 3 (10KΩ @ 77°F; 25°C) Pt1000 (1KΩ @ 32°F; 0°C)
□ Nickel —	RTD Ni1000 (1KΩ @ 32°F; 0°C)
	RTD Ni1000 (1KΩ @ 69.8°F; 21°C)
I/O Modules - Digital Inp	outs (DI)
General	
	Dry contact or Open-Collector
	< 2.5V
High Threshold ————————————————————————————————————	> 3.0V
Pulse/Counter	
Pulse Input —	S0 output compatible
	120Hz
Minimum Duty Cycle —	4.167milliseconds On / 4.167milliseconds Off
I/O Modules - Universal	Outputs (UO)
General	. ,
Output Type	———— Universal; software configurable
	10-bit digital to analog Converter
	Built-in snubbing diode to protect against back-EMF,
	for example when used with a 12VDC relay
Load Resistance	— Minimum 200 Ω for 0 to 10VDC and 0 to 12VDC outputs
	Maximum 500Ω for 0 to 20mA output
Auto-reset Fuse	60mA @ 140°F; 60°C
0 or 12VDC (On/Off)	
Range —	0 or 12VDC
PWM	
Range —	Adjustable period from 2 to 65seconds
Floating	
Minimum Pulse On/Off Time	500milliseconds
Drive Time Period —	Adjustable
0 to 10VDC	
Range —	0 to 10VDC linear
0 to 20mA	
Range ————	0 to 20mA

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	——————————————————————————————————————
HOA	DII SWIIGH
Tianu-On-Auto Switch	Supervision allows control logic to read the current
	HOA switch and potentiometer settings
Threshold —	<u> </u>
Potentiometer Voltage Range ———	0 to 12VDC
I/O Modules - Digital	Output (DOT)
General	
Output Type —	24VAC Triac; software configurable
Maximum Current —	0.5A continuous
	1A @ 15% duty cycle for a 10 minute period
Power Source	External power supply
0 or 24VAC (On/Off)	
Range ————	0 or 24VAC
PWM	
Range —	Adjustable period from 2 to 65seconds
Floating	
Minimum Pulse On/Off Time	500milliseconds
Drive Time Period	Adjustable
HOA	
Hand-Off-Auto switch	
——————————————————————————————————————	vision allows control logic to read the current HOA switch setting
I/O Modules - Digital	Output (DOR)
For ECY-8DOR & ECY-8I	
	DOR-HOA Models.
General	
	Relay contact
	Form C Dry contact (external power supply)
	Dry contact (external power supply) 277VAC or 0-30VDC ±10%, see HIG for mounting specifications
	277 VAC OF 0-30 VDC ±10 %, see File for Mounting specifications
Maximum Current Resistive Load	10A
□ Inductive Load ————	6A
	3A
D (()	Dutputs must be protected with max 10 A external circuit breaker

ECLYPSE™ Connected System Controller

☐ ☐ ☐ 16 / 18

Digital

Range — On/Off

HOA

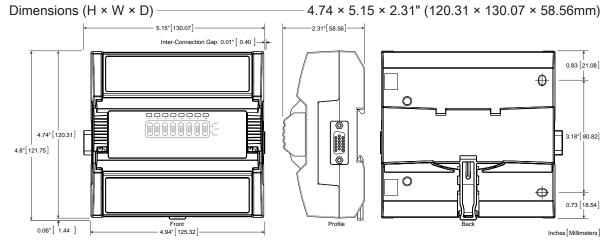
Hand-Off-Auto switch — When equipped

Supervision allows control logic to read the current HOA switch setting

Plastic housing, UL94-5VB flammability rating

commercial and light-industrial environments

Mechanical



Shipping weight — 0.75lbs (0.34kg)

Mounting — DIN rail or screw mounting

Hot-swappable — Yes (once high voltages have been removed)

Enclosure Material — FR/ABS

Environmental

Enclosure Rating¹

(must be mounted in a protective enclosure to conform with electrical installation standards)

Overvoltage — Category II - 2.5 kV

Standards and Regulations

CE:

□ Electrical Safety ── EN 60730-1 : 2011 - Automatic electrical controls for household and similar use - Part 1: General requirements □ Emission ── EN61000-6-3: 2007; A1:2011; Generic standards for residential, commercial and light-industrial environments □ Immunity ── EN61000-6-1: 2007; Generic standards for residential,

All materials and manufacturing processes comply with the RoHS directive and are marked according to the Waste Electrical and Electronic Equipment (WEEE)
directive

F©	C€	c (UL) us	
FCC —			− This device complies with FCC rules part 15, subpart B, class B
			General Requirements - Edition 2 - Revision Date 2008/10/28
			For Measurement, Control, And Laboratory Use - Part 1:
UL Listed	(CDN & US) -		UL 61010-1 Safety Requirements For Electrical Equipment

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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