Eclypse Communication Modules

ECY-RS485

ECY-MBUS

Overview

Communication modules enable Eclypse Connected Controllers to communicate with a variety of devices.

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

An ECY-MBUS communication module adds one M-Bus port to support and power up to 60 M-Bus meters.

Features & Benefits

• Multiple communication protocols, like BACnet/IP and Modbus, make it easier to integrate into existing building automation systems and add functionality for edge applications such as metering.

• Easier communication module setup through the same web interface as the Eclypse connected controllers.

• The communications modules are plug & play devices and are equipped with HD-15 connectors that transmit power and communication to the next module for fast and easy assembly.

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

• Supports Distech Controls' EC-*gfx*Program, 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.
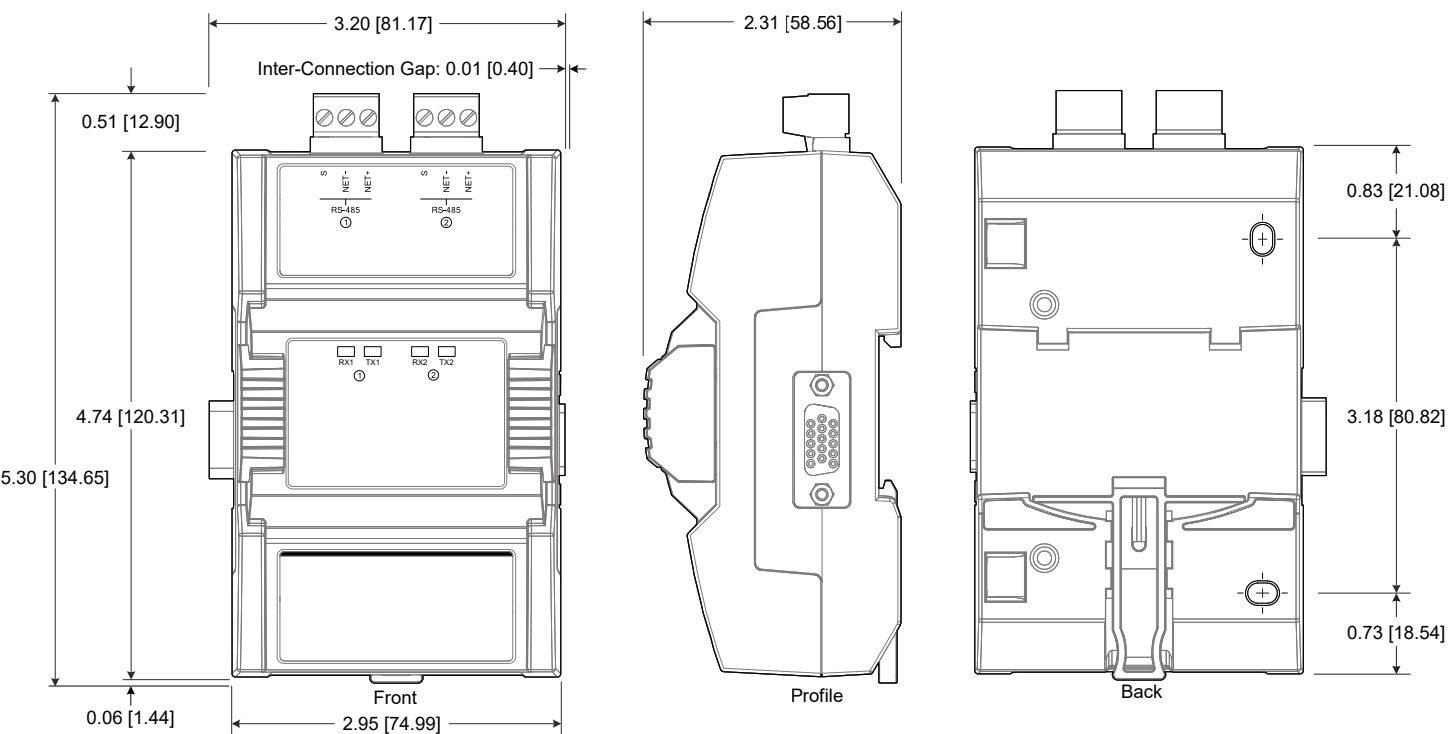
Eclypse™

DISTECH CONTROLS®

Model Selection

Model	Description
ECY-RS485 Gen2	Communication module with two RS-485 ports for Eclypse Facilities controllers. Supports Modbus RTU and BACnet MS/TP. Requires Eclypse Connectivity Pack (1 MS/TP device per connection or two ModBus devices per connection). Minimum one connection required to enable BACnet MS/TP routing.
ECY-MBUS Gen2	Communication module with one M-Bus port for Eclypse Facilities controllers controllers (up to 60 M-Bus meters). Requires Eclypse Connectivity Pack (8 M-Bus meters per connection).
ECY-RS485	Eclypse Communication module with two RS-485 ports for Modbus RTU or BACnet MS/TP with a Generation 1 Eclypse connected controller.
ECY-MBUS	Eclypse Communication module with one M-Bus port, supporting up to 60 physical M-Bus meters when connected to an Generation 1 Eclypse connected controller, or up to 3 physical meters when connected via USB to an ECY-VAV, ECY-303, or ECY-(P)TU.

Product Specification ECY-RS485

Supported Quantity	1 × ECY-RS485 per Eclypse connected controller

Power Supply Input

Voltage	18VDC; Class 2
Power Consumption	1.5 W

Communications

BACnet MS/TP or Modbus RTU	2 × RS-485 serial communication ports
	Each RS-485 port supports one communication protocol at a time
RS-485 Wiring	1-pair + Common/shield
Connection Type	Screw terminals
RS-485 EOL Resistor	Built-in
RS-485 Baud Rates	9600, 19 200, 38 400, or 76 800 bps
RS-485 Addressing	Controller's Web Configuration Interface
Status Indicators	Green LED: TX Orange LED: RX

Mechanical

Dimensions (H × W × D)	4.74 × 3.20 × 2.31" (120.31 × 81.17 × 58.56mm)
Shipping weight	0.69lbs (0.31 kg)

Mounting	DIN rail or screw mounting
Enclosure Material	FR/ABS
Enclosure Rating[1]	Plastic housing, UL94-V0 flammability rating

[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

Operating Temperature	32 to 122°F (0 to 50°C)
Storage Temperature	-22 to 158°F (-30 to 70°C)
Relative Humidity	0 to 90% non-condensing
Ingress Protection Rating	IP20 in accordance with IEC 60537
Nema Rating	1

Standards and Regulations

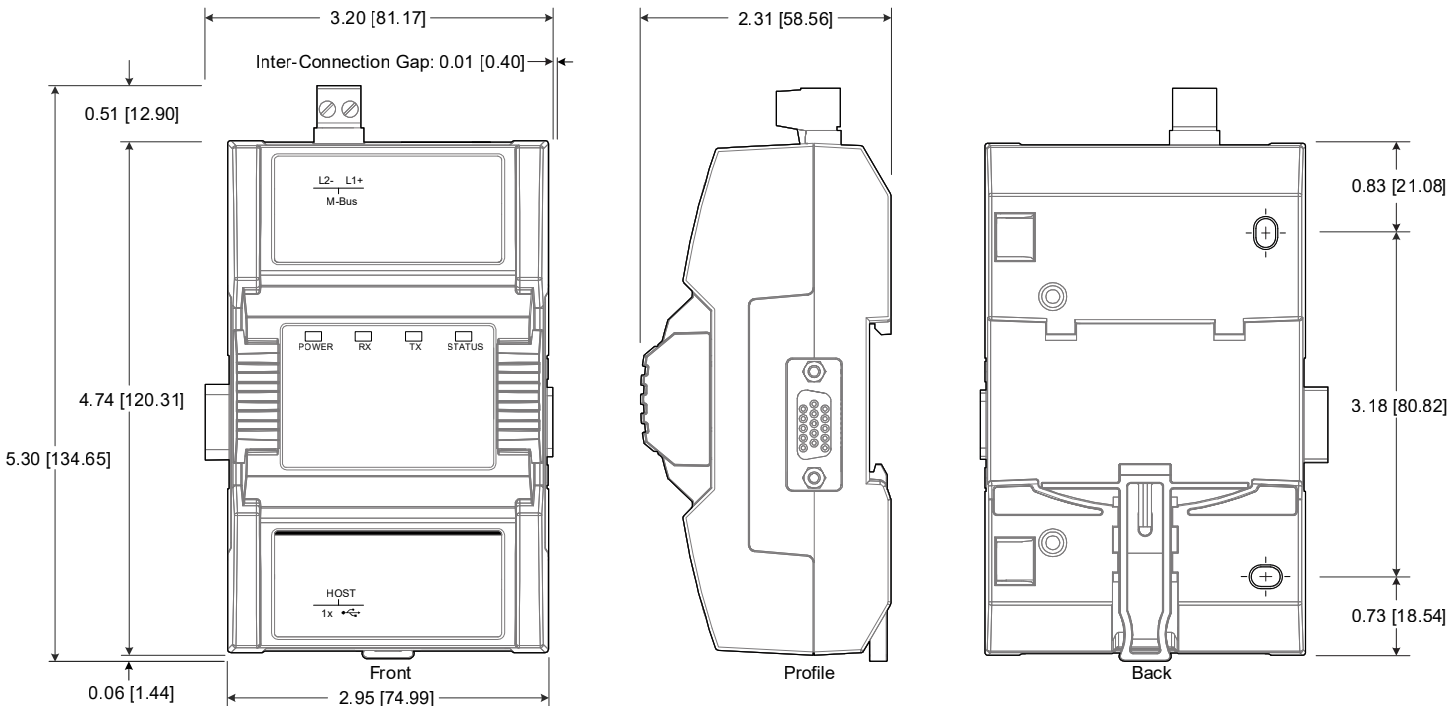|	
CE Emission	EN61000-6-3: 2007; A1:2011
CE Immunity	EN61000-6-1: 2007
FCC	Compliance with FCC rules part 15, subpart B, class B
UL Listed (CDN & US)	UL916 Energy management equipment

Dimensions ECY-RS485

ECY-RS485 Dimensions (Inches [millimeters])

Product Specification ECY-MBUS

Supported Quantity	1 × ECY-MBUS per Eclypse connected controller

Power Supply Input

Power Source	ECY-PS24 or ECY-PS-100-240 power supply module, or USB port
Voltage	18V; Class 2 (when equipped) 5V; Class 2 (when connected via USB)
Power Consumption	10W over 18V power supply 2.5W over USB

Communications

M-Bus Ports	1x M-Bus serial communication port
Supported Physical M-Bus Meters	3 (USB), or 60 (ECY-MBUS60)
M-Bus Wiring Terminals	2
M-Bus baud rates	300, 600, 900, 1200, 2400, 4800, and 9600
M-Bus Meter Addressing	Configured in EC-*gfx*Program

Status Indicators	Green LED: TX Orange LED: RX Green LED: POWER Red LED: MBUS Fault

Mechanical

Dimensions (H × W × D)	4.74 × 3.20 × 2.31" (120.31 × 81.17 × 58.56mm)
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Dimensions ECY-MBUS

ECY-MBUS Dimensions (Inches [Millimeters])

ECY-Comm-BI_SP_12_EN