

# ECLYPSE Communication Modules

## ECLYPSE™



## 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 transmits power and communications 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.

# Model Selection

Model	Description
ECY-RS485	ECLYPSE Communication module with two RS-485 ports for Modbus RTU or BACnet MS/TP with an ECLYPSE connected controller.
ECY-MBUS	ECLYPSE Communication module with one M-Bus port, supporting up to 60 M-Bus meters when connected to an ECLYPSE connected controller, or up to 3 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 ECY connected controller
<b>Power Supply Input</b>	
Voltage	18VDC; Class 2
Power Consumption	1.5 W
<b>Communications</b>	
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

<b>Mechanical</b>	
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 <sup>1</sup>	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

<b>Environmental</b>	
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

<b>Standards and Regulations</b>	
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

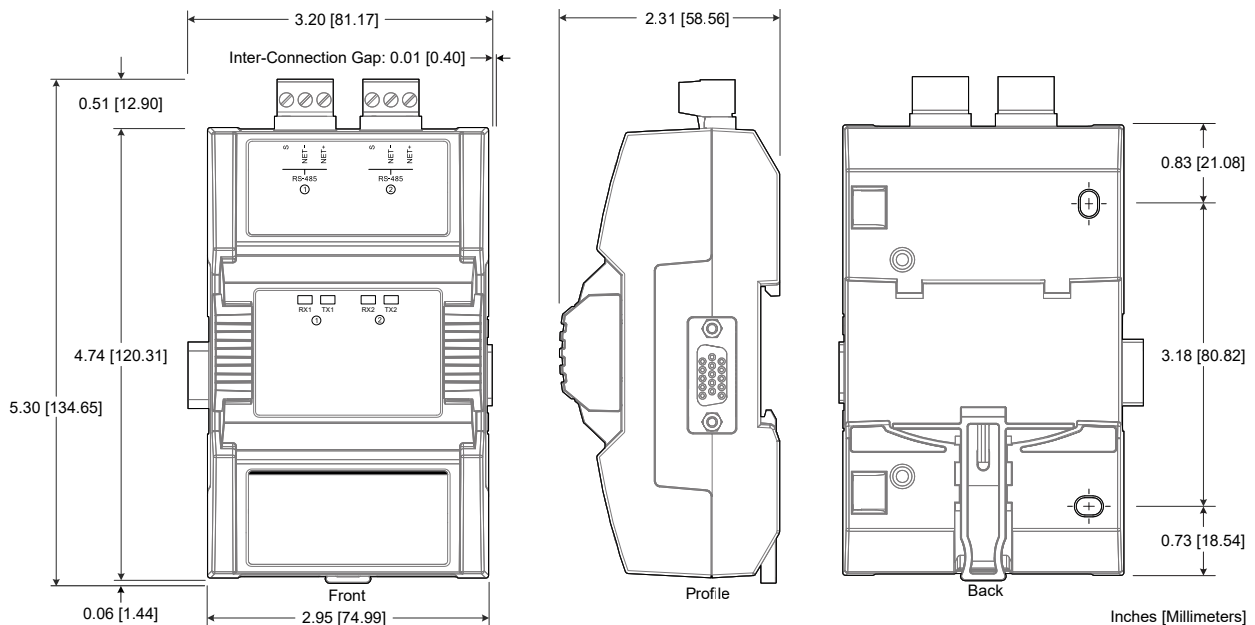


Figure 1: ECY-RS485 Dimensions

# Product Specification ECY-MBUS

Supported Quantity 1 × ECY-MBUS per ECY-VAV, ECY-303 or ECY-TU/PTU

## 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 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-grfxProgram

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)

Shipping weight 0.69lbs (0.31 kg)

Mounting DIN rail or screw mounting

Enclosure Material FR/ABS

Enclosure Rating<sup>1</sup> Plastic housing, UL94-V0 flammability rating

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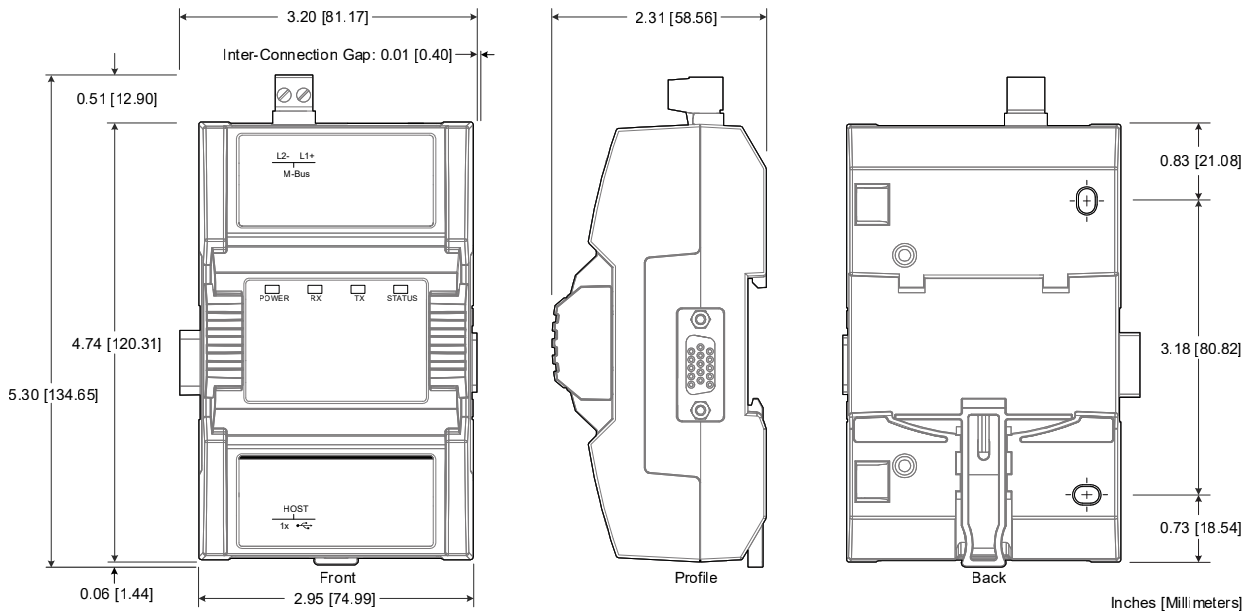


Figure 2: ECY-MBUS Dimensions

Specifications subject to change without notice.

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