

enteliBUS™

I/O Modules: eBM-440I

Description

The eBM-440I is an enteliBUS™ I/O expansion module with 4 universal inputs and 4 current outputs with optional monitored overrides. Auto detecting and hot swappable I/O Modules are selected to create the exact I/O combination needed for a given application. Should the application require the system to expand in the future, I/O expansion is easy to add.



Application

The enteliBUS control system is made up of multiple modular components which are selected to meet the exact needs of a wide range of HVAC and Access Control applications.

enteliBUS I/O Modules provide the field I/O interface for the enteliBUS Control System. With I/O Modules supporting all common control types, the controller I/O mix is easily and efficiently tailored to fit any application.

Features

- ▶ Auto detecting & hot swappable
- ▶ Universal inputs (jumper configurable)
- ▶ 0-100% LED status indication of each input state
- ▶ 0-100% adjustable monitored output overrides (optional)
- ▶ Tri-color LED status indication of each output state
- ▶ Small footprint, DIN rail mountable
- ▶ Modular design provides flexibility, ease of service, and reduced cost for future upgrades/expansion

Specifications

Inputs

4 universal inputs (12 bit), jumper configurable for:
0-5 VDC, >1MΩ loading
0-10 VDC, 20KΩ loading
10 KΩ Thermistor, 10KΩ to 5 VDC
Dry Contact (using 10KΩ jumper setting)
4-20 mA, 250Ω to gnd

LED status indication of each input:
Black = 0% to Bright Blue = 100%

Outputs

4 Current outputs
0-20 mA, 250Ω-500Ω
Software configurable as binary or analog
0-100% adjustable monitored overrides option (3 position HAO switches with adjust levers)

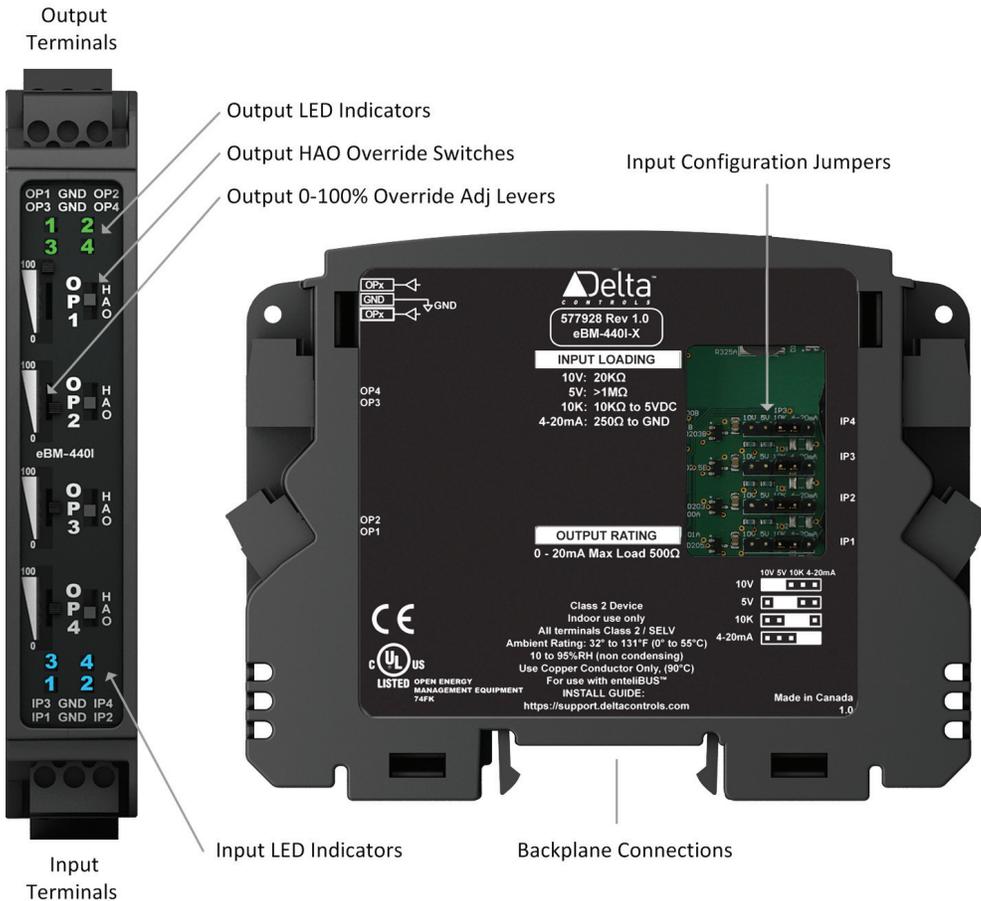
Tri color LED status indication of each output
Auto: Black = 0% to Bright Green = 100%
Manual: Off = Red
Hand: Black = 0% to Bright Yellow = 100%

Connectors

3 Pin removable screw-type terminal connectors

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eBM-440I: Board Layout Diagram



Specifications (Continued)

Wiring Class

Class 2 / SELV

Power

24VAC/DC

10VA*

*Current loop power is supplied through the module

Ambient

0° to 55°C (32° to 131°F)

10—95% RH (non-condensing)

Dimensions

12.6 x 2.3 x 10cm (5.0" x 0.9" x 4.0")

Mounting

Snap mounts to enteliBUS Backplane & DIN rail assembly

Enclosure Protection Rating

IP30

Listings

UL 916

Compliance

CE

FCC

Ordering

Order the eBM-440I according to the following product numbers:

eBM-440I	enteliBUS I/O Module - 4x universal inputs & 4x 0-20mA outputs
eBM-440I-M	enteliBUS I/O Module - 4x universal inputs & 4x 0-20mA outputs w/ 3 position HAO override switches and 0-100% override adjust levers

Accessories

See enteliBUS Parts List for a complete list of all available enteliBUS modules and accessories

eBX-04	enteliBUS Expander - I/O Expander with 4 slot Expander Backplane
eBX-08	enteliBUS Expander - I/O Expander with 8 slot Expander Backplane
eBCON	enteliBUS Controller - Compact CPU/Comm. module with 4 slot Controller Backplane