

# enteliBUS®

## I/O Modules: eBM-440

### Description

The eBM-440 I/O module has 4 universal inputs and 4 universal 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. When there is a need for the system to expand in the future, I/O expansion is easy to add using these modules.



### Application

The enteliBUS Control System is a fully programmable native BACnet® control platform. It is scalable and therefore cost-effective over a wide range of applications, from low-density distributed control to high-density centralized I/O applications.

Used together with an eBMGR or eBCON automation engine, the combination of different enteliBUS I/O modules is designed to support all typical input and output needs. This allows the controller I/O mix to be easily and efficiently tailored to fit any application.

### Features

- ▶ Universal inputs (jumper configurable)
- ▶ 0-100% LED status indication of each input state
- ▶ 3 position Hand / Auto / Off (HAO) monitored output override switches (optional)
- ▶ Status of each output indicated by a tri-color LED
- ▶ Small footprint, DIN rail mountable
- ▶ Modular design provides flexibility, ease of service, and reduced cost for future upgrades and expansions.

### Specifications

#### Inputs

- 4 Universal Inputs (12-bit), jumper configurable for:
  - 0-5 VDC
  - 0-10 VDC
  - 10 kΩ Thermistor
  - Dry Contact (using 10 kΩ Thermistor jumper setting)
  - 4-20 mA

#### Outputs

- 4 Universal Outputs (8-bit)
  - 0-10 VDC @ 20 mA max
  - Software configurable as binary or analog
  - Optional 3 position (HAO) override switches with 0 to 100% override adjust levers

#### Mounting

- Snap mount to enteliBUS backplane and 35 mm steel DIN rail assembly

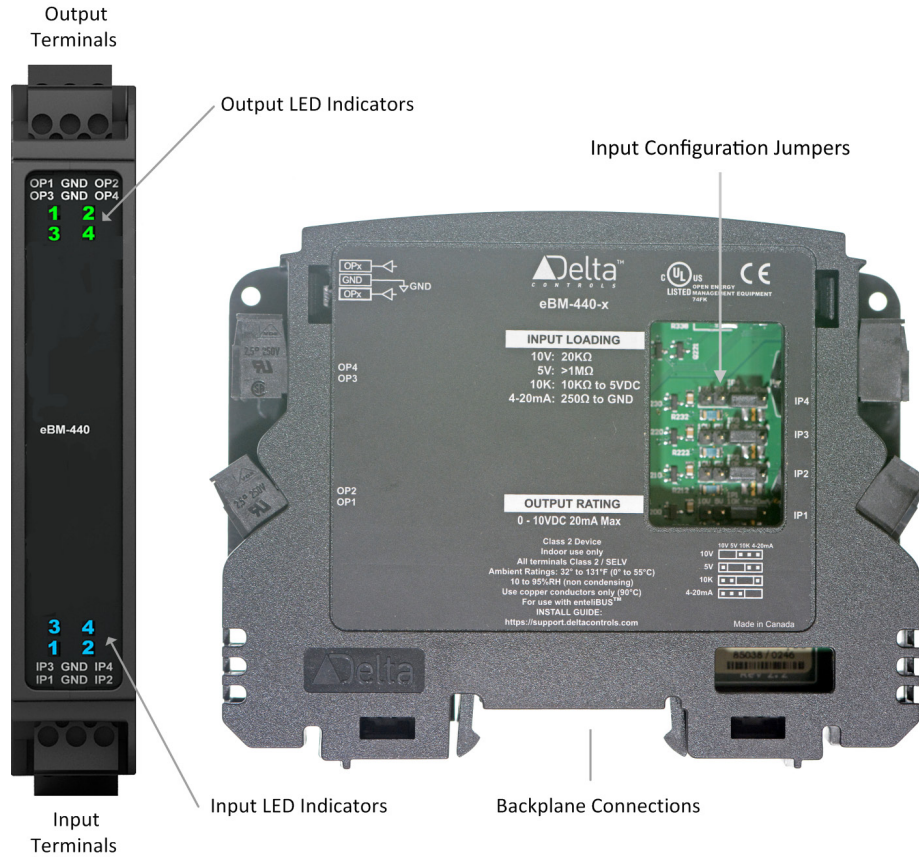
#### Connectors

- 3-pin removable screw-type terminal connectors

#### Wiring Class

- Class 2 / SELV

## eBM-440: Board Layout



### Specifications (Continued)

#### Power

24 VAC / VDC 50/60 Hz @ 5 VA\*

\*I/O module power is supplied from an eBX or eBCON through the backplane

#### Ambient

32° to 131°F (0° to 55°C)  
10 to 95% RH (non-condensing)

#### Dimensions

5.0 x 0.9 x 4.0 in. (12.6 x 2.3 x 10 cm)

#### Weight

0.24 lb. (108 g)

#### Enclosure Protection Rating

IP30

#### Compliance

CE  
FCC

#### Listings

UL 916 Listed  
UL 864 Listed for UL 864 product numbers

### Ordering

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

<b>eBM-440</b>	enteliBUS I/O module with 4 universal inputs and 4 0-10 VDC outputs
<b>eBM-440-M</b>	enteliBUS I/O module with 4 universal inputs, 4 0-10 VDC outputs with 3 position (HAO) override switches and 0 to 100% override adjust levers
<b>eBM-440-UL864-340</b>	eBM-440 with UL 864 listing

### Accessories

See the enteliBUS parts list for a complete list of all available enteliBUS modules and accessories.

<b>eBMGR</b>	enteliBUS Manager — CPU / Comm. module**
<b>eBMGR-TCH</b>	enteliBUS Manager — CPU / Comm. module with touchscreen LCD
<b>eBX-04</b>	enteliBUS expander — I/O expander with 4-slot expander backplane**
<b>eBX-08</b>	enteliBUS expander — I/O expander with 8-slot expander backplane**
<b>eBCON</b>	enteliBUS controller — compact CPU / Comm. module with 4-slot controller backplane**

\*\* UL 864 versions available

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Subject to change without notice.