

## 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.



#### **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 k $\Omega$  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

### **Application**

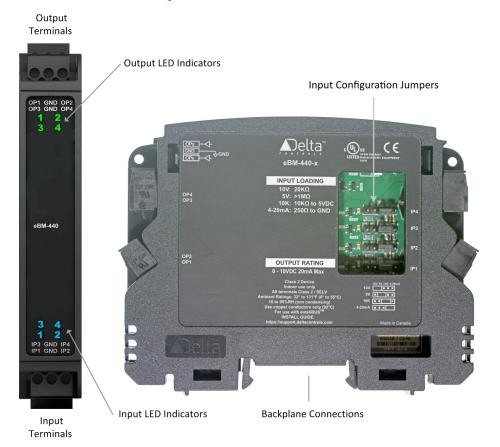
The enteliBUS Control System is a fully programmable native BACnet® control platform. It is scalable and therefore cost-effective over a wide range of applications, from low-density distributed control to high-density centralized I/O applications.

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.



# enteliBUS®

# eBM-440: Board Layout



#### **Ordering**

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

eBM-440	enteliBUS I/O module with 4 universal inputs and 4 0-10 VDC outputs
eBM-440-M	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
eBM-440-UL864-340	eBM-440 with UL 864 listing

#### **Accessories**

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

eBMGR	enteliBUS Manager — CPU / Comm. module**
eBMGR-TCH	enteliBUS Manager — CPU / Comm. module with touchscreen LCD
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**

<sup>\*\*</sup> UL 864 versions available

#### 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

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