

enteliBUS®

I/O Modules: eBM-404

Description

The eBM-404 I/O module has 4 universal inputs and 4 24 VAC TRIAC 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 (HAO) monitored output override switches (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 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 Binary TRIAC Outputs
 - 24 VAC @ 0.5 A max per output*
 - Leakage current 100 μA, min current 25 mA
 - Jumper configurable for internal* or external power
 - Optional 3 position (HAO) monitored output override switches

*0.25 A max per output when switching to internal power

Mounting

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

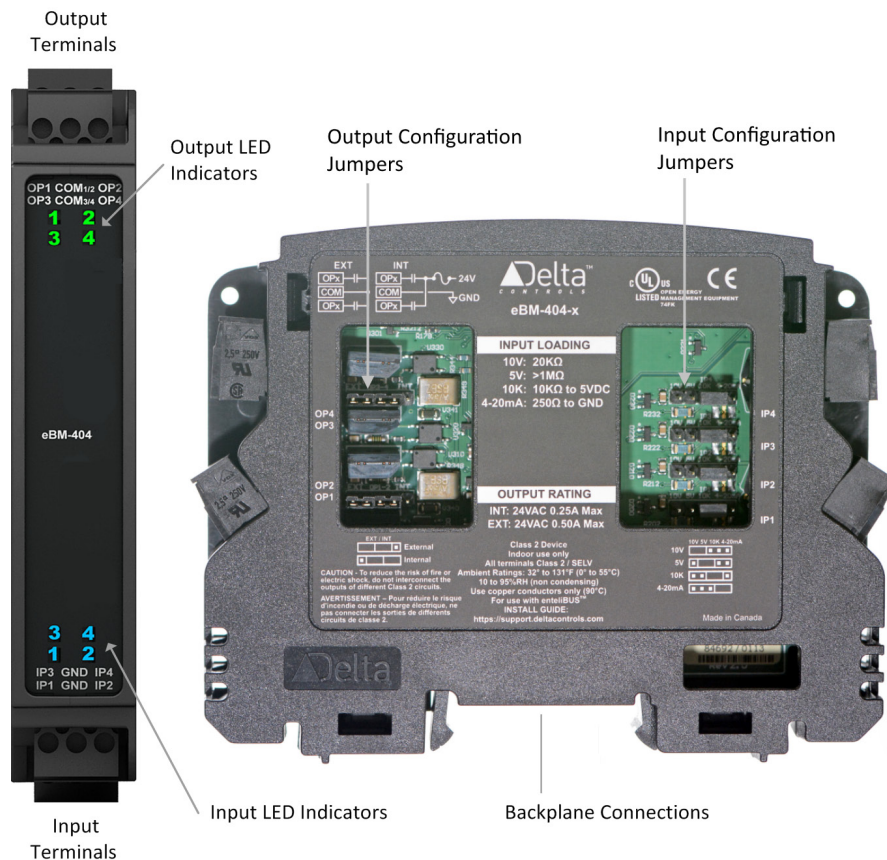
Connectors

3-pin removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

eBM-404: Board Layout



Specifications (Continued)

Power

24 VAC 50/60 Hz @ 5 VA, 27 VA max with fully loaded outputs**

**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

0.273 lb (124 g)

Enclosure Protection Rating

IP30

Compliance

CE
 FCC

Listings

UL 916 Listed
 UL 864 Listed for UL 864 product numbers

Ordering

Order the eBM-404 according to the following product numbers:

eBM-404	enteliBUS I/O Module with 4 universal inputs and 4 24 VAC TRIAC outputs
eBM-404-H	enteliBUS I/O Module with 4 universal inputs, 4 24 VAC TRIAC outputs and 3 position (HAO) override switches
eBM-404-UL864-340	eBM-404 with UL 864 listing

Accessories

See the 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 with 4-slot controller backplane [†]
eBMGR	enteliBUS Manager — CPU / Comm. module [†]

[†] UL 864 versions available

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Subject to change without notice.