# enteliBUS™

## I/O Modules: eBM-800

### Description

The eBM-800 is an enteliBUS™ I/O Module with 8 universal inputs. 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.

### Features

— Auto detecting & hot swappable

— Universal inputs (jumper configurable)

— 0-100% LED status indication of each input state.

— Small footprint, DIN rail mountable

— Modular design provides flexibility, ease of service, and reduced cost for future upgrades/expansion

**eBM-800**

### Application

The enteliBUS Control System is made up of multiple modular components that you select to meet the exact needs of a wide range of HVAC and Access control applications.

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

### Specifications

**Inputs**
8 Universal inputs (12 bit), jumper configurable for:

• 0-5 VDC, > 1MΩ loading

• 0-10 VDC, 20KΩ loading

• 10 KΩ Thermistor, 10KΩ to 5VDC

• Dry Contact (using 10 KΩ jumper setting)

• 4-20 mA, 250Ω to Gnd

LED status indication of each input:

• Black = 0% to Bright Blue = 100%

**Connectors**
3 Pin removable screw-type terminal connectors
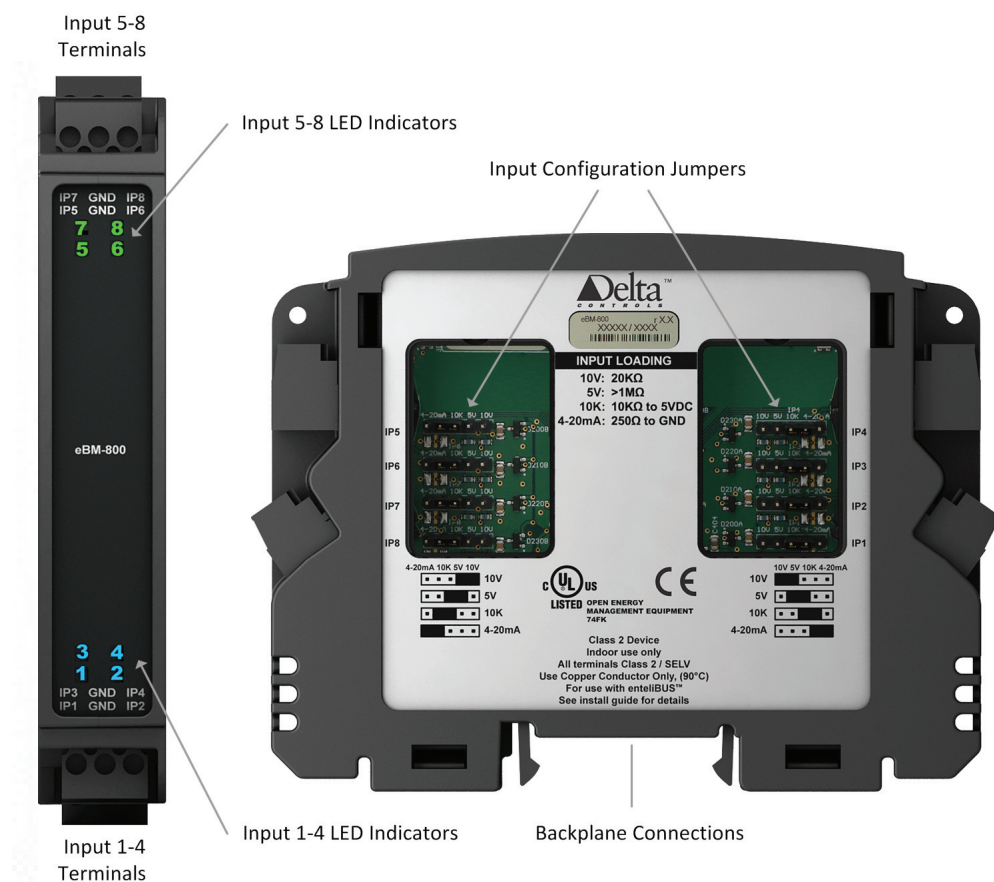
**Wiring Class**
Class 2 / SELV

**Power**
24VAC/DC

5VA*

*I/O Module power is supplied from an eBX or eBCON through the Backplane.

**Ambient**
0° to 55°C (32° to 131°F)

10 - 95% RH (non-condensing)

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## eBM-800: Board Layout Diagram

Input 5-8 Terminals

Input 5-8 LED Indicators

Input Configuration Jumpers

IP7 GND IP8
IP5 GND IP6
7  8
5  6

eBM-800

INPUT LOADING
10V: 20KΩ
5V: >1MΩ
10K: 10KΩ to 5VDC
4-20mA: 250Ω to GND

IP5
IP6
IP7
IP8

IP4
IP3
IP2
IP1

4-20mA 10K 5V 10V
10V
5V
10K
4-20mA

10V 5V 10K 4-20mA
10V
5V
10K
4-20mA

c(UL)us
LISTED  OPEN ENERGY
MANAGEMENT EQUIPMENT
74FK

CE

Class 2 Device
Indoor use only
All terminals Class 2 / SELV
Use Copper Conductor Only, (90°C)
For use with enteliBUS™
See install guide for details

3  4
1  2
IP3 GND IP4
IP1 GND IP2

Input 1-4 LED Indicators

Backplane Connections

Input 1-4 Terminals

## Specifications (Continued)

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

**Mounting**
Snap mounts to enteliBUS Backplane & DIN rail assembly

**Enclosure Protection Rating**
IP30

**Compliance**
CE

FCC

**Listings**
UL 916

## Ordering

| | |
|---|---|
| **eBM-800** | enteliBUS I/O Module - 8x universal inputs |

## 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 |

Subject to change without notice.

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