

enteliBUS®

I/O Modules: eBM-R800-1K

Description

The eBM-R800-1K is an I/O module with 8 RTD inputs. 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

- ▶ No transmitter required, connect 2 wire PT1000 or Ni1000 RTD sensors directly to enteliBUS inputs
- ▶ Wide temperature range
- ▶ Small footprint, DIN rail mountable
- ▶ Modular design provides flexibility, ease of service, and reduced cost for future upgrades and expansions.

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.

Specifications

Inputs

8 RTD Inputs (12-bit):
Resistance: 750 to 2210 Ω
Type: 1000 Ω
Wiring Configuration: 2-wire
Sensor Current 1.0 mA max

PT1000 (0.003850 TCR)
Range: -76 to 626°F (-60 to 330°C)
Resolution:
0.20°F from -76 to 248°F
(0.10°C from -60 to 120°C)
0.4°F (0.2°C) max for entire range

Ni1000 (0.005000 TCR)
Range: -58 to 464°F (-50 to 240°C)
Resolution:
0.14°F from -58 to 248°F
(0.08°C from -50°C to 120°C)
0.2°F (0.1°C) max for entire range

Ni1000 DIN (0.006178 TCR)
Range: -40 to 374°F (-40°C to 190°C)
Resolution:
0.1°F from -40 to 86°F
(0.05°C from -40°C to 30°C)
0.2°F (0.1°C) max for entire range

Mounting

Snap mount to enteliBUS backplane and DIN rail assembly

Connectors

3-pin removable screw-type terminal connectors

Wiring Class

Class 2 / SELV

eBM-R800-1K: Board Layout



Specifications (Continued)

Power

24 VAC / DC 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

0.26 lb. (116 g)

Enclosure Protection Rating

IP30

Compliance

CE
FCC

Listings

UL 916 Listed

Ordering

Order the eBM-R800-1K according to the following product number:

eBM-R800-1K	enteliBUS I/O Module with 8 RTD inputs (2-wire, 1000 Ω)
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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
eBM-D800	enteliBUS I/O module with 8 digital inputs

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Subject to change without notice.