



I/O Modules: eBM-R800-1K

Description

The eBM-R800-1K is an enteliBUS™ I/O expansion 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. Should the application require the system to expand in the future, I/O expansion is easy to add.



eBM-R800-1K

Application

The enteliBUS control system is made up of multiple modular components that are selected to meet the exact needs of a wide range of HVAC and Access control applications.

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

Features

- Auto Detecting & hot swappable
- 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/expansion

Specifications

Inputs

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

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

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

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

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°F (32° to 131°C)

10—95% RH (non-condensing)

eBM-R800-1K: Board Layout Diagram



Specifications (Continued)

Dimensions

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

Mounting

Snap mounts to enteliBUS Backplane & DIN rail assembly

Enclosure Protection Rating

IP30

Listings

UL 916

Compliance

CE

FCC

Ordering

eBM-R800-1K	enteliBUS I/O Module—8x RTD inputs (2-wire, 1000Ω)
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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.