

RS-485 NETWORK BRIDGE WITH CONFIGURABLE DISPLAY AND ALARM CAPABILITY



PRODUCT HIGHLIGHTS

- Analog input to RS-485 bridge
- Make any sensor a network sensor
- Accurate voltage measurement
- Scalable signal conversion
- Display custom units of measure
- Simple pushbutton interface
- RS-485 BACnet/Modbus connection
- Substitute BACnet AI for analog voltage
- Fixed or % tolerance alarming
- Dry contact relay
- One-year warranty
- Toll-free customer support for the lifetime of the product

TYPICAL APPLICATIONS

- Analog signal to RS-485 network bridge
- Remote display for RS-485 or analog signal device
- Low/High setpoint alarm

MODEL DESCRIPTION

The BRG-N100 functions as an analog input to RS-485 network bridge. It supports both BACnet MS/TP and Modbus RTU. In addition, it can bind to a remote BACnet object (AO, AI or AV) to read BACnet devices without a dedicated B.A.S. network.

BRG-N100 TECHNICAL SPECIFICATIONS

General

User Interface: 16-character LCD display and 4 button interface

Input

Type: Analog Input (AI1)

Ranges:

Voltage: 0-10 VDC

Current: 4-20mA (from 4 wire source, no excitation voltage)

B.A.S. Connectivity Options

BRG-N100 Bridge: One field selectable (BACnet MS/TP or Modbus RTU) and non-isolated RS-485 network connection for the scaled network value of AI1, including units of measure - A remote BACnet network object (AO, AI or AV) may be substituted for the physical analog input (AI1) in applications that require an RS-485 BACnet device be read without a B.A.S. network. Note: this functionality is not available for Modbus devices. Provide individual 24 VAC transformers at each BRG-N100 bridge for applications requiring isolated RS-485.

Relay

Type: Dry contact w/ onboard jumper to drive a remote LED (R1=alarm)

Status: N.O. or N.C. via user setup configuration

Rating: 30 VDC or 24 VAC @ 3 amp. Max.

Analog Input (AI1) Alarm

Type: Low and/or high user defined setpoint alarm

Tolerance: User defined % of setpoint or fixed value setpoint

Delay: User defined

Reset Method: Manual or automatic

Visual Indication: Yes, LCD display and red indicating LED

Network Indication: Yes

Contact Closure Relay Assignment: Yes, R1

Listings and Compliance

FCC: This device complies with Part 15 of the FCC rules

RoHS: This device is RoHS2 compliant

Environmental Limits

Temperature: -20 to 120 °F [-28.9 to 48.9 °C]

Humidity: 5 to 95% (non-condensing)

Power Requirement: 24 VAC (22.8 to 26.4 under load) @2.5V-A

Dimensions: 3.57H x 6.00W x 1.58D in. [90.7 x 152.4 x 40.1 mm]