

## Display, Alarm and Analog to RS-485 BACnet/Modbus Bridge



- Display the output of any analog sensor
- Read a BACnet MS/TP AI object in lieu of the physical analog input without a BAS network
- Analog input range 0-10 VDC or 4-20 mA
- 16-character alpha-numeric LCD.
- Define and display user defined input with custom units of measure
- Built-in high, low or high/low setpoint alarm with user defined tolerance and delay
- Automatic or manual alarm reset
- Active alarm is displayed on LCD, illuminates a red LED and closes a N.O. dry contact relay
- Convert the analog input to a BACnet MS/TP AI, AO or AV object or dual register Modbus value
- Make any analog sensor a network sensor
- Simple pushbutton interface does not require any proprietary hardware or software

### Functionality

**Display:** Display the measured analog input, AI1 (or BACnet MS/TP AI1), on the LCD with user defined units of measure

**Alarm:** Low and/or high user defined setpoint alarm on AI1 with user defined % of setpoint or fixed value tolerance

**Delay:** User defined

**Reset Method:** Manual or automatic

**Visual Indication:** Yes, LCD and red indicating LED

**Network Indication:** Yes

**Contact Closure Relay Assignment:** Yes, R1

**Network Bridge Capability:** Convert AI1 to a BACnet MS/TP AI, AV or AO object or dual register Modbus RTU value (high byte/low byte user definable)

### User Interface

**Display:** 16-character alpha-numeric LCD

**Navigation:** 4-button interface

### Analog Input

AI1

**Type:** Analog Input (AI1)

**Assignment:** User defined analog signal

**Configurable Ranges:** 0-10V or 4-20mA (4-wire)

### Contact Closure Relay

R1

**Type:** Dry contact w/ onboard jumper to drive a remote LED

**Assignment:** Active alarm

**Status:** Normally Open (N.O.)

**Rating:** 30 VDC or 24 VAC @ 3 amp. max.

### Network Connection

N1

**Type:** Non-isolated MS/TP BACnet master (provide an RS-485 network isolator if isolation is required) or Modbus RTU connection

**Protocol:** Field selectable

**B.A.S. Object Read/Write Access:** Yes

**Device Load:** 1/8 load

**Supported Baud Rates:** 9.6, 19.2, 38.4 and 76.8 kbaud

### Environmental Limits, Power Requirements & Dimensions

**Environmental Limits**

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

**Humidity:** 5 to 95%

**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]