

OS214-EH

OPENSTAT Electric Heat

BACnet MS/TP Controller



OPENSTAT

Description

- Configurable wall or panel mount controller for electric duct heater applications
- Native BACnet MSTP enabled and ready with BTL certified as a B-ASC
- Room and or discharge air control application
- 0-10 Vdc, 10 Vdc pulsed or 24 Vac pulsed control of single stage modulating output
- Local interface for user setpoint control & configuration. Configuration can also be made through BACnet
- 4 I/O: 2 UI, 1 AO, 1 BO
- BACnet MS/TP: *B-BC BTL Certification (Pending)*

Application

The OS214-EH controller is designed to facilitate the control and management of custom electric resistive duct heater equipment typically used in the HVAC industry. It allows powerful solutions that can be configured according to any project needs. It features a very flexible I/O set capable of meeting electric heaters applications such as modulating small zone heaters, large staged heater systems, room and or discharge air control for central system control or make up air systems.

Technical Specifications

Power supply:

- 24 VAC/VDC \pm 15%; Class 2

Current Consumption:

- 1.5 VA controller only
- 50 VA Max including BO 2A max

Communication Protocols:

- BACnet MS/TP half-wave device
- Baud 9600, 19200, 38400, 76800 Bps (76800 default) RS485 transceiver is a 1/4 load device
- Mini USB2 MS/TP network access
- BTL listed: B-BC, BACnet Building Controller

Hardware

- Microprocessor: STM32 (ARM Cortex™ M33) 32 bits
- CPU Speed: 250 MHz
- Memory: 2 Mbytes non-volatile Flash
- RAM: 640 KB SRAM
- Real-time clock (RTC): Built-in capacitor (one-week backup)

Configuration

- Configurable using the local buttons, writing to the BACnet configuration objects or Strato Software tools.

Inputs:

- 2 temperature Inputs (AI)
- Thermistor 10K Ω (type 2 or 3)
- Resolution: 12 Bits (4096 segments)

Outputs:

- 1 Binary Output
- MOSFET Solid State Relays, Isolated
- Zero cross-fired
- 10 to 30VAC, 2.0A max
- 1 Analog Outputs
- Voltage 0 - 10 VDC linear or pulsed



Mechanical:

- Dimensions: W 3.58" (91 mm) x H 4.92" (125 mm) x D 0.98" (25 mm)
- Stocking temperature: -30 °C to 50 °C / -22 °F to 122 °F
- Operating conditions: 0 °C to 50 °C / ... °F to 113 °F 10% to 90% H.R. without condensation
- Mounting type: Standard 2" x 4" electrical junction box
- Enclosure: White color, PCABS material UL94VO

Warranty: 1 Year

Certifications:

- UL 916 Energy Management Equipment
- BTL listed: B-BC, BACnet Building Controller

