OS214

Strato Automation

OPENSTAT CONFIGURABLE WALL BACNET MS/TP & WI-FI CONTROLLER

Description

- Configurable Wall Controller
- ASHRAE G36 Compliant Applications
- EH & UH Simple: FCU, RTU, HP, & WSHP
- **7 I/O:** 2 UI, 1 AO, 4 BO
- Sensors: Temperature
- WiFi6: WPA3/2.4 GHz   **W MODEL**
- BACnet MS/TP: *B-BC BTL Certification (Pending)*
- BACnet WiFi6 IP w/ WEB services: *B-BC BTL Certification (Pending)*

OPEN STAT

Model	Temperature	BACnet WiFi6	MSTP
OS214	X		X
OS214W	X	X	X

Application

The OS214 controller streamlines the management of standard HVAC equipment such as EH and UH, as well as Simple FCU, RTU, HP, and WSHP. OS214 provides multiple configuration profiles, offering flexibility to align with diverse project requirements.

Technical Specifications

Power supply:
- 24 VAC/VDC ± 15%; Class 2

Current Consumption:
- 1.5 VA controller only
- 96 VA Max, including BO's 2A each

Communication Protocols:
- BACnet MS/TP half-wave device
- Baud 9600, 19200, 38400, 76800 Bps (76800 default) RS485 transceiver is a ¼ load device
- Mini USB2 MS/TP network access
- Optional WiFi6 2.4Ghz BACnet IP module with integrated WEB services that fully support REST API's
- 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 embedded WEB page services (**MOBILE CONFIG**), local interface, writing to BACnet configuration objects, or utilizing Strato Software tools.

Inputs:
2 Universal Inputs (AI/BI)
- Thermistor 10KΩ (type 2 or 3)
- Dry contact, 500 ms minimum (On-Off)
- Voltage 0 - 10 Vdc (Input impedance of 100 K Ω)
- Current 0-20 / 4-20 mA (Input impedance of 162 Ω)
- Resolution: 12 Bits (4096 segments)

Outputs:
4 Binary Outputs
- MOSFET Solid State Relays, Isolated
- Zero cross-fired
- 10 to 30VAC, 2.0A max

1 Analog Outputs
- Voltage 0 - 10 VDC linear

Temperature Sensor
....±0.2 °C @ 0 °C to 60 °C

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

4.92" 125 mm

3.58" 91 mm

.98" 25 mm