

# OS214

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

### Description

- Configurable Wall Controller
- ASHRAE G36 Compliant Applications
- Simple: FCU, RTU, HP
- 7 I/O: 2 UI, 1 AO, 4 BO
- Sensors: Temperature
- Wi-Fi 6: WPA3/2.4 GHz (W MODEL)
- BACnet MS/TP: **B-BC BTL Certification (Pending)**
- BACnet WiFi IP w/ WEB services: **B-BC BTL Certification (Pending)**

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### Application

The OS214 controller streamlines the management of standard HVAC equipment, including electric heating, as well as Simple FCU, RTU and Heat Pump. OS214 provides multiple configuration profiles, offering flexibility to align with diverse project requirements.

### Technical Specifications

#### Power supply:

- 24 VAC/VDC  $\pm$  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 1/4 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 10K $\Omega$  (type 2 or 3)
  - Dry contact
  - Voltage 0 - 10 Vdc (Input impedance of 20 K $\Omega$ )
  - Resolution: 12 Bits (4096 segments)

#### Outputs:

- 4 Binary Outputs
  - MOSFET SolidState Relays, Isolated
  - 10 to 30VAC, 2.0A max
- 1 Analog Outputs
  - Voltage 0 - 10 VDC linear

#### Temperature Sensor

- $\pm 0.2$  °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 listing (pending)
- FCC Class A digital device, pursuant to part 15 of the FCC Rules

