OS537

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

Description

- Configurable Wall Controller
- ASHRAE G36 Compliant Applications
- AHU, FCU, RTU, HP, WSHP & VAV
- 15 I/O: 5 UI, 3 AO, 7 BO
- Temp, RH%, and Motion: Standard
- CO2: Optional
- BACnet MS/TP: B-BC BTL Certification (Pending)
- BACnet WiFi6 (2.4GHz) IP w/ WEB services: B-BC BTL Certification (Pending)

MODEL	TEMP, RH%	MOTION	CO2 NDIR	BACNET WIFI6
OS537H	X			
OS537MH	X	Х		
OS537MHC	X	Х	Х	
OS537MHW	X	Х		X
OS537MHCW	X	Х	X	X

CPENSTAT () CONSTANT

Strato

Automation

Application

The OS537 controller streamlines the management of standard HVAC equipment such as FCU, RTU, HP, WSHP, VAV, and AHU. The OS537 provides numerous 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 the local buttons, writing to the BACnet configuration objects or utilizing the embedded WEB page services or Strato Software tools.

Inputs:

- 5 Universal Inputs (Al/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:

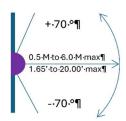
- 7 Binary Outputs
- MOSFET Solid State Relays, Isolated
 Zero cross-fired
- 10 to 30VAC, 2.0A max
- 3 Analog Outputs
- Voltage 0 10 VDC linear

Humidity & Temperature Sensors Sensirion[™]SHT40

±1.8 RH @ 25-75% RH overall +/- 3% ±0.2 °C @ 0 °C to 60 °C

Radar Motion Detection Sensor:

- Operating Principle: Radar crosssection optimized for human being
- Detection Distance: 0.5 to 6M maximum
- Detection angle of ± 70 degrees



Optional CO2 Sensor: Telaire[™] T6713

- Self-calibrating, non-dispersive infrared (NDIR)
- Sensor Range: 400-2000 PPM
- Accuracy: ± 30 PPM @ 3% of reading
- Accuracy is valid after a minimum of 2
- weeks of continuous operation.Response Time of 3 minutes
- 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 / 32°F to 122 °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



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