

OST537

Configurable Wall

BACnet MS/TP & Wi-Fi Controller



Description

- Configurable Wall Controller
- ASHRAE G36 Compliant Applications
- AHU, FCU, RTU, HP, WSHP
- 15 I/O: 5 UI, 3 AO, 7 BO
- Sensors: Temp, RH% - Standard
- Motion and CO2: Optional
- Wi-Fi 6: WPA3 at 2.4 GHz
- BACnet MS/TP: B-BC BTL Certification
- BACnet Wi-Fi 6 IP w/ WEB services: B-BC BTL Certification

OPEN STAT
POWERED BY
TOUCH



MODEL	TEMP RH%	MOTION	CO2 NDIR	BACNET WIFI	MSTP
OST537HW	X			X	X
OST537MHW	X	X		X	X
OST537MHCW	X	X	X	X	X

Application: The OST537 controller provides a versatile solution for controlling AHU, FCU, RTU, HP & WSHP. With extensive configuration flexibility, it easily adapts to the unique requirements of virtually any HVAC application.

Technical Specifications

Power supply:

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

Current Consumption:

- 6 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 B USB MS/TP network access
- Wi-Fi 6 at 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 CortexTM M33) 32 bits
- CPU Speed: 250 MHz
- Memory: 64 Mbytes SDRAM
- Flash 128MB
- Real-time clock (RTC): Built-in capacitor (one-week backup)
- Full color, IPS, backlit, capacitive LCD touchscreen, display resolution 320 x 480

Configuration

- Configurable using the Capacitive Touch Screen, writing to the BACnet configuration objects or utilizing the embedded WEB page services or Strato Software tools.
- Mobile Apps

Inputs:

- 5 Universal Inputs (AI/BI)
- Thermistor 10K Ω (type 2 or 3)
- Dry contact
- Voltage 0 - 10 Vdc (Input impedance of 20 K Ω)
- Resolution: 12 Bits (4096 segments)

Outputs:

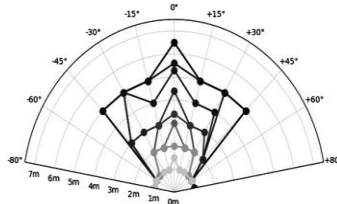
- 7 Binary Outputs
MOSFET Solid State Relays, Isolated
10 to 30VAC, 2.0A max
- 3 Analog Outputs
Voltage 0 - 10 VDC linear

Humidity & Temperature Sensors

- Sensirion™ SHT40
- ± 1.8 RH @ 25-75% RH overall $\pm 1.3\%$
- ± 0.2 °C @ 0 °C to 60 °C
- ± 0.36 °F @ 32 °F to 140 °F

Radar Motion Detection Sensor:

- Operating Principle: Radar cross-section optimized for human being
- Detection distance and angle: 20 feet (6M) @ 0°
16 feet (5M) @ $\pm 45^\circ$
3 feet (1M) @ $\pm 80^\circ$



Optional CO2 Sensor: Telaire™ T6793

- Self-calibrating, non-dispersive infrared (NDIR)
- Sensor Range: 400-2000 PPM
- Accuracy: ± 45 PPM @ 3% of reading
- Accuracy is valid after a minimum of 2 weeks of continuous operation.
- Response Time of 5 minutes

Mechanical:

- Dimensions: W 3.5" (88.8 mm) x H 4.89" (124.4 mm) x D 0.98" (25 mm)
- Stacking 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% RH (non-condensing)
- Mounting type: Standard 2" x 4" electrical junction box
- Enclosure: White color, PCABS material UL94VO

Warranty: 2 Years

Certifications:

- UL 916 Energy Management Equipment
- BTL listed B-BC
- FCC Class B digital device, pursuant to part 15 of the FCC Rules

