



SensorStat Controller

BENEFITS

The SensorStat controller communicates with both a SensorStat wireless thermostat or directly with the SensorStat control software.

The SensorStat controller has a self-ranging transformer that allows it to be connected to line-voltages ranging from 110 VAC to 277 VAC without additional relays. It has the ability to send and receive 0-24 VDC signals to control equipment like valves, dampers and sensors.



SPECIFICATIONS

| | |
|--------------------------------|---|
| Part Number | |
| BT100107 | T-STAT CONTROLLER |
| System Requirements | |
| Power | Line Voltage (18 to 277 V AC or DC) |
| Required Hardware | For use with SensorStat wireless thermostat |
| Dimensions | |
| Height | 4.0" (10.2 cm) |
| Width | 6.0" (15.2 cm) |
| Depth | 1.5" (3.8 cm) |
| Operational Temperature | |
| Min | 32°F (0°C) |
| Max | 120°F (49°C) |
| Operational Humidity | |
| Min | 10% Relative Humidity |
| Max | 90% Relative Humidity |

Interconnectivity and Certifications

I/O Connections

| | |
|-----------------------------|--------------------------------------|
| NTC Temperature Probe | 1 Input |
| Current Transformer Input | Up to 3 available |
| Dry Contact Input | 2 Inputs |
| Analog Valve Control Output | 2 Outputs, 0-10V, 4-20 mA (optional) |

Internal Mesh Network Radio

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|---------------|--|
| Specification | ZigBee® IEEE 802.15.4 |
| Radio Band | 2.4 GHz ISM Band |
| Radio Power | 16dBm = 40mW |
| Radio Range | Up to 300 ft. (100 m) based on environment |

Firmware Upgrades

Options for manual or over the air upgrades

Certifications

| | |
|-----|--------------------|
| FCC | FCC ID: XV6PST6000 |
|-----|--------------------|

HVAC and Electrical Specifications

Maximum Current Draw

| | |
|------------------|----------|
| 1st Output | 10 A |
| 2nd & 3rd Output | 5 A each |
| 4th - 6th Output | 3 A each |

Compatible HVAC Units

| | |
|-------|---|
| Type | PTAC, Fan Coil, Split, 2 & 4 Pipe Valve |
| Other | Custom wiring & configuration available w/request |

Optional Components

High Power Mesh Network Radio with External Antenna Port

| | |
|---------------|--|
| Part Number | SENSORSTAT HIGH POWER RADIO |
| BT200108 | |
| Specification | ZigBee 802.15.4 |
| Radio Band | 2.4 GHz ISM |
| Radio Power | 1 mW (0dBm) |
| Radio Range | Up to 300 ft. (100 m) based on environment |

External Mesh Network Radio

Allows radio communication in RF-obstructed locations

| | |
|-------------------|---|
| Part Number | SENSORSTAT FLEXIBLE ANTENNA |
| BT200106 | |
| Required Hardware | Requires BT200108 Mesh Network Radio (allows connection for external antenna) |

External NTC Temperature Probe

| | |
|-----|---------------|
| Min | 35°F (2°C)* |
| Max | 120°F (49°C)* |

*standard range; other range options are available

