



## Features & Options

- BAPI-Stat “Quantum” unit with up to 275 foot in-building range\*
- Optional temperature setpoint and occupant override
- Approximate 5 year battery life with 5 minute transmit rate
- Battery power or wired power
- Customizable transmission rate and transmission power for optimum battery life and reliability of each sensor
- Gateway provides data to the BAS via multiple communication options (TCP/IP, JSON, BACnet IP)

The BAPI-Stat “Quantum” 900 MHz Sensor measures the room temperature and transmits the data via 900MHz RF to a Gateway up to 275 feet away. It is available with optional setpoint and override.

The unit has an estimated battery life of 5 years with the default transmit rate of once every 5 minutes\*\* for battery powered units. The unit can also be ordered with wired power rather than battery power. The transmitted temperature is picked up by a Gateway and supplied directly to the BAS via multiple communication options (TCP/IP, JSON, BACnet IP).

The unit is capable of storing all data in memory until it receives a successful reception signal from the Gateway, so that no data is lost during a communication interruption. Each sensor has customizable transmission rate and transmission power for optimum battery life and reliability. Additional transmissions can be triggered by a temperature change with a user-adjustable threshold. The system uses “smart logic” to find and secure a clean frequency channel rather than “frequency hopping”.



Sensor with optional Setpoint & Override

## Specifications

**Power for Battery Powered Units:** Two 3.6V Lith. batteries, 2,600 mAh, ~5 year battery life\*\*

**Power for Wired Power Units:** 9 to 30 VDC, 50 mA max • 15 to 28 VAC, 50 mA max

**Temperature Accuracy:**

±0.36°F (±0.2°C) from built in thermistor

**Transmitted Temperature Range:**

-40 to 185°F (-40 to 85°C)

**Transmission Distance:** Up to 275 feet\*

**Environmental Operation Range:**

Temp: 32 to 140°F (0 to 60°C)

Humidity: 5% to 95% RH non-condensing

**Enclosure Material & Rating:**

ABS Plastic, UL94 V-0

**Frequency:**

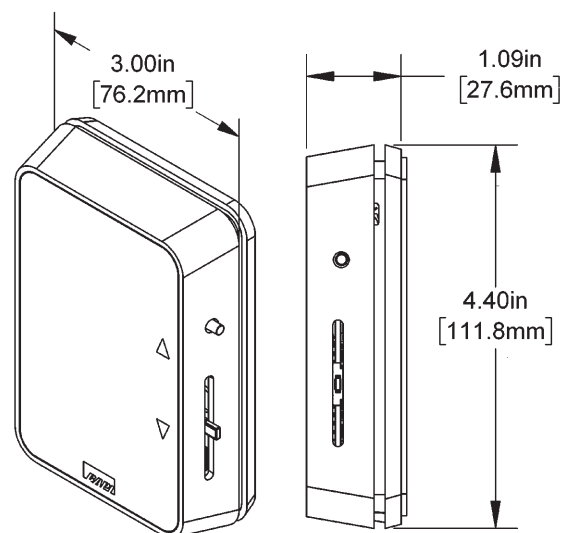
900 MHz (4 Channel, 7 MHz Spacing)

**Transmission Interval:**

5 minute default, user adjustable

**Transmit Power:** 0 dBm default, +5 dBm max

**Receiver Sensitivity:** -101 dBm



\*Actual in-building transmission distances will vary depending upon building construction, transmission power setting and other factors.

\*\*Actual battery life will vary depending upon transmission interval setting and transmission power setting.





# BAPI-Stat “Quantum” Temperature Sensor

900 MHz Wireless System

## Ordering Information

**BA/WT900-Q**..... BAPI-Stat “Quantum” Temp Sensor, Battery Power

**BA/WT900-Q-PWR** ..... BAPI-Stat “Quantum” Temp Sensor, Wired Power

**BA/WT900-S-Q** ..... BAPI-Stat “Quantum” Temp Sensor w/ Temp Setpoint, Battery Power

**BA/WT900-S-Q-PWR**.. BAPI-Stat “Quantum” Temp Sensor w/ Temp Setpoint, Wired Power

**BA/WT900-O-Q**..... BAPI-Stat “Quantum” Temp Sensor w/ Override, Battery Power

**BA/WT900-O-Q-PWR** . BAPI-Stat “Quantum” Temp Sensor w/ Override, Wired Power

**BA/WT900-SO-Q** ..... BAPI-Stat “Quantum” Temp Sensor w/ Setpoint & Override, Battery Power

**BA/WT900-SO-Q-PWR**. BAPI-Stat “Quantum” Temp Sensor w/ Setpoint & Override, Wired Power

**BA/LI3620** ..... 3.6V Lithium Battery

*See end of Section F for list pricing.*

## 900 MHz Gateway

The Gateway receives the data from sensors up to 275 feet away, and provides the data to the BAS via multiple communication options (TCP/IP, JSON, BACnet IP). The Gateway also sends a confirmation signal to each sensor upon a successful reception of data, allowing the sensor to release the data that it has stored in memory so that no data is lost during a communication interruption.

