



Features & Options

- Optional temperature setpoint and override
- User adjustable settings to maximize battery life while ensuring the BMS gets the info it needs
- Transmits to a receiver and output modules with multiple integration methods into the BMS

The BAPI-Stat "Quantum" Wireless Sensor measures the room temperature and humidity transmits the data via Bluetooth Low Energy to a receiver and output modules with multiple integration methods into the BMS.

It is available with optional temperature setpoint and occupancy override.



Units w/ optional Setpoint & Override
(Right image shown with optional 60mm mounting base)



Specifications

Battery Power:

Two included 3.6V 14505, 14500 or equivalent lithium batteries (Standard AA batteries are not compatible)

Wire Power: 9 to 30 VDC or 24 VAC, halfwave rectified

Sensor Accuracy:

Temp: $\pm 1.7^{\circ}\text{F}$ (0.95°C) from 32 to 158°F (0 to 70°C)
Humidity: $\pm 2\% \text{RH}$ @ 77°F (25°C), 20 to 80%RH

Temperature Range: -4 to 221°F (-20 to 105°C)

Transmission Distance: Varies by application*

Environmental Operation Range:

Temp: -4 to 149°F (-20 to 65°C)
Humidity: 10 to 90%RH non-condensing

Enclosure Material & Rating: ABS Plastic, UL94 V-0

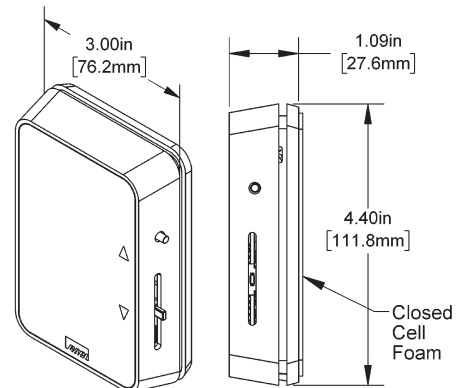
Frequency: 2.4 GHz (Bluetooth Low Energy)

Receiver Sensitivity: -97 dBm

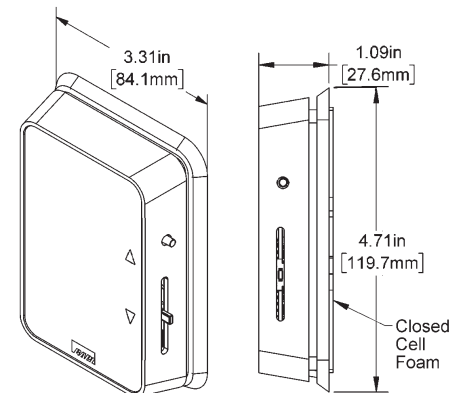
User Adjustable Settings:

Delta T (Temp): 0.1°F/C to 5.0°F/C
Delta T (Humidity): 0.1%RH to 5.0%RH
Transmit Interval: 1 min to 30 min
Sample Interval: 30 sec to 5 min

Agency: RoHS | Contains FCC ID: QOQGM210P |
IC: 5123A-GM210P



Standard Mounting Base



60mm Mounting Base

(Fits European wall boxes and junction boxes with 60mm mounting centers)

*In-building range is dependent on obstructions such as furniture and walls and the density of those materials. In wide open spaces, the distance may be greater; in dense spaces, the distance may be less.

**Actual battery life is dependent on the sensor's adjustable settings and environmental conditions.

BAPI-Stat "Quantum" Units Calculated Battery Life**		
Transmit Interval	Sample Rate	Estimated Life (years)
30 sec	30 sec	1.12
1 min	1 min	1.89
3 min	1 min	3.83
5 min	5 min	7.08
10 min	5 min	8.93





Ordering Information

BATTERY POWER UNITS WITH STANDARD MOUNTING BASE

BA/WTH-BLE-Q-BAT: BAPI-Stat “Quantum” Temp/Humidity Sensor, Battery Power

BA/WTH-BLE-Q-S-BAT: BAPI-Stat “Quantum” Temp/Humidity Sensor, Setpoint, Battery Power

BA/WTH-BLE-Q-SO-BAT:

BAPI-Stat “Quantum” Temp/Humidity Sensor, Setpoint, Override, Battery Power

WIRE POWER UNITS WITH STANDARD MOUNTING BASE

BA/WTH-BLE-Q-PWR: BAPI-Stat “Quantum” Temp/Humidity Sensor, Wire Power

BA/WTH-BLE-Q-S-PWR: BAPI-Stat “Quantum” Temp/Humidity Sensor, Setpoint, Wire Power

BA/WTH-BLE-Q-SO-PWR

BAPI-Stat “Quantum” Temp/Humidity Sensor, Setpoint, Override, Wire Power

BATTERY POWER UNITS WITH 60MM MOUNTING BASE

BA/WTH-BLE-Q60-BAT

BAPI-Stat “Quantum” Temp/Humidity Sensor, Battery Power, 60mm Base

BA/WTH-BLE-Q60-S-BAT

BAPI-Stat “Quantum” Temp/Humidity Sensor, Setpoint, Battery Power, 60mm Base

BA/WTH-BLE-Q60-SO-BAT

BAPI-Stat “Quantum” Temp/Hum Sensor, Setpoint, Override, Battery Power, 60mm Base

BA/LI14505: 3.6V Lithium Battery

WIRE POWER UNITS WITH 60MM MOUNTING BASE

BA/WTH-BLE-Q60-PWR

BAPI-Stat “Quantum” Temp/Humidity Sensor, Wire Power, 60mm Base

BA/WTH-BLE-Q60-S-PWR

BAPI-Stat “Quantum” Temp/Humidity Sensor, Setpoint, Wire Power, 60mm Base

BA/WTH-BLE-Q60-SO-PWR

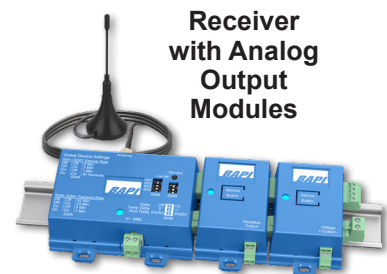
BAPI-Stat “Quantum” Temp/Hum Sensor, Setpoint, Override, Wire Power, 60mm Base



Associated Receiver and Output Modules

RECEIVER - Collects the data from up to 28 wireless sensors and transfers the data to the Analog or Digital Output Modules for integration into the BAS.

DIGITAL AND ANALOG OUTPUT MODULES - The BACnet IP Module converts the data from up to 28 sensors for integration into the management level BACnet IP network. The BACnet MS/TP or Modbus RTU Module converts the data from up to 28 sensors for integration into the field level BACnet or Modbus Network. The Analog Output Modules convert the sensor data to a voltage or resistance for the controller analog inputs.



Receiver with Analog Output Modules

Wireless Site Verification App

BAPI recommends that all wireless customers conduct a site verification and send the information to BAPI prior to installing the system to ensure optimum performance. Our experts will review the data and follow up with an approval or recommendations if needed. A site verification app is available on the BAPI website at:

<https://www.bapihvac.com/wireless-site-verification/>

