Remote Probe Sensor
Wireless System

Features & Options

- User adjustable settings and onboard memory
- Transmits to a digital Gateway or a wireless-to-analog Receiver

BAPI's Remote Probe Wireless Sensor measures the temperature and transmits the data via Bluetooth Low Energy to a receiver or gateway. It features a 1.75" (44mm) long SS probe with either Plenum-Rated or FEP-Jacketed Cable and an IP66-rated BAPI-Box enclosure. Five lead lengths from 5 to 25 feet (1.5 to 7.6 meters).
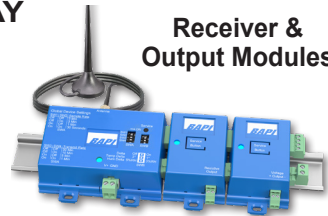
ASSOCIATED RECEIVER OR GATEWAY

- **Receiver (Wireless-to-Analog)** - Receives the data from the wireless sensors. The data is then transferred to the Analog Output Modules and converted to an analog voltage or resistance.

- **Gateway -** Receives the data from the wireless sensors. The Gateway then provides the data to the cloud via MQTT.

Gateway

Receiver & Output Modules

Wireless Remote Probe Sensor

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

Temperature Sensor Accuracy:
±1.0°F (0.55°C) from 32 to 158°F (0 to 70°C)

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 Rating & Material: IP66, UV-Resistant Polycarb., 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
Transmit Interval: 30 sec to 12 hour***
Sample Interval: 30 sec to 5 min***
Temp Offset: ±0.1°F/C to ±5.0°F/C

Onboard Memory:
Sensor retains up to 16,000 readings should the communication become interrupted. If using a Gateway, the data is re-transmitted once communication is re-established.
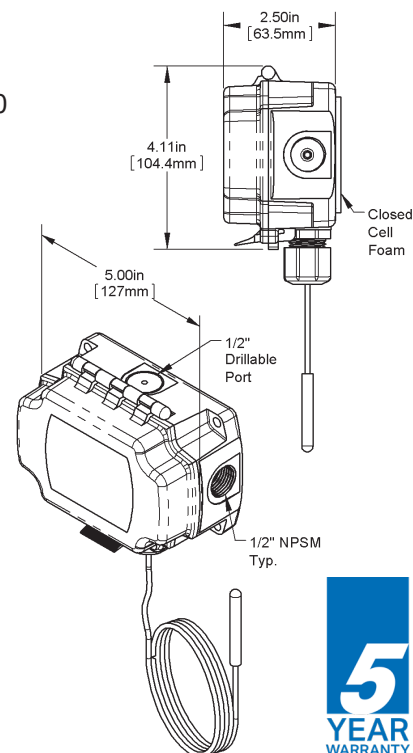
Agency: RoHS / FCC: T4FSM220809 / IC: 9067A-SM220809

BAPI-Box Units Calculated Battery Life**		
Transmit Interval	Sample Rate	Estimated Life (years)
30 sec	30 sec	1.04
1 min	1 min	1.95
3 min	1 min	3.46
5 min	5 min	4.63
10 min	5 min	7.02

*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.

***The available transmit intervals and sample intervals are different depending on whether the system is using a gateway or a receiver.

2.50in [63.5mm]
4.11in [104.4mm]
5.00in [127mm]
Closed Cell Foam
1/2" Drillable Port
1/2" NPSM Typ.

5 YEAR WARRANTY

Ordering Information

BATTERY POWER UNITS

BA/WT-BLE-RPP-5-BB-BAT
Wireless Remote Sensor w/ Plenum-Rated Cable, 5' (1.5m) Leads, Battery Power

BA/WT-BLE-RPP-10-BB-BAT
Wireless Remote Sensor w/ Plenum-Rated Cable, 10' (3.0m) Leads, Battery Power

BA/WT-BLE-RPP-15-BB-BAT
Wireless Remote Sensor w/ Plenum-Rated Cable, 15' (4.6m) Leads, Battery Power

BA/WT-BLE-RPP-20-BB-BAT
Wireless Remote Sensor w/ Plenum-Rated Cable, 20' (6.1m) Leads, Battery Power

BA/WT-BLE-RPP-25-BB-BAT
Wireless Remote Sensor w/ Plenum-Rated Cable, 25' (7.6m) Leads, Battery Power

BA/WT-BLE-RPFEP-5-BB-BAT
Wireless Remote Sensor w/ FEP-Jacketed Cable, 5' (1.5m) Leads, Battery Power

BA/WT-BLE-RPFEP-10-BB-BAT
Wireless Remote Sensor w/ FEP-Jacketed Cable, 10' (3.0m) Leads, Battery Power

BA/WT-BLE-RPFEP-15-BB-BAT
Wireless Remote Sensor w/ FEP-Jacketed Cable, 15' (4.6m) Leads, Battery Power

BA/WT-BLE-RPFEP-20-BB-BAT
Wireless Remote Sensor w/ FEP-Jacketed Cable, 20' (6.1m) Leads, Battery Power

BA/WT-BLE-RPFEP-25-BB-BAT
Wireless Remote Sensor w/ FEP-Jacketed Cable, 25' (7.6m) Leads, Battery Power

BA/LI14505: 3.6V Lithium Battery)

WIRE POWER UNITS

BA/WT-BLE-RPP-5-BB-PWR
Wireless Remote Sensor w/ Plenum-Rated Cable, 5' (1.5m) Leads, Wire Power

BA/WT-BLE-RPP-10-BB-PWR
Wireless Remote Sensor w/ Plenum-Rated Cable, 10' (3.0m) Leads, Wire Power

BA/WT-BLE-RPP-15-BB-PWR
Wireless Remote Sensor w/ Plenum-Rated Cable, 15' (4.6m) Leads, Wire Power

BA/WT-BLE-RPP-20-BB-PWR
Wireless Remote Sensor w/ Plenum-Rated Cable, 20' (6.1m) Leads, Wire Power

BA/WT-BLE-RPP-25-BB-PWR
Wireless Remote Sensor w/ Plenum-Rated Cable, 25' (7.6m) Leads, Wire Power

BA/WT-BLE-RPFEP-5-BB-PWR
Wireless Remote Sensor w/ FEP-Jacketed Cable, 5' (1.5m) Leads, Wire Power

BA/WT-BLE-RPFEP-10-BB-PWR
Wireless Remote Sensor w/ FEP-Jacketed Cable, 10' (3.0m) Leads, Wire Power

BA/WT-BLE-RPFEP-15-BB-PWR
Wireless Remote Sensor w/ FEP-Jacketed Cable, 15' (4.6m) Leads, Wire Power

BA/WT-BLE-RPFEP-20-BB-PWR
Wireless Remote Sensor w/ FEP-Jacketed Cable, 20' (6.1m) Leads, Wire Power

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Wireless Remote Sensor w/ FEP-Jacketed Cable, 25' (7.6m) Leads, Wire Power