

# **BAPI WIRELESS OSA TEMPERATURE & HUMIDITY TRANSMITTERS**

BA/WT-O, BA/WTH-O

## **DESCRIPTION**

The BAPI BA/WT-O, BA/WTH-O wireless outside air temperature and humidity transmitters sense outside conditions and transmit them with a battery-operated 418 MHz transmitter. The sensor / transmitter is mounted in a NEMA 4 (IP66) enclosure with a 2.58" stainless steel temperature probe or a 1.58" temperature / humidity probe. The transmitter has an open air range of 100 feet. The battery has an estimated eight-year life with transmission updates approximately every 10 seconds. Other duct insertion probe lengths are available.

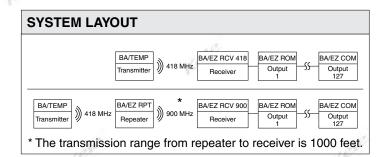
# **OPERATION/APPLICATION**

Temperature and humidity data is transmitted via 418 MHz to a receiver. Minimum in-building range is 100 feet and battery life is estimated to be eight years with high-capacity 3.6 VDC lithium batteries (at a 10-second transmit interval). Each transmitter has a unique address and includes built-in error detection. Each variable sent by the transmitter is converted by a BAPI analog output module to a voltage, current, or resistance signal for input to a controller or monitor. The unit can also be set up to send low-battery information to the controller.

# **FEATURES**

- · Wireless temperature and humidity sensing
- Eight-year battery life
- · Built-in error detection
- · Repeater available for 1000-foot range
- Output modules available with signal outputs of voltage, current, or resistance
- Stainless steel temperature probe
- PVC weather shield (temperature model)
- Sintered filter (temperature / RH model)
- Two-year warranty





### **SPECIFICATIONS**

# **DEVICE OPERATION**

**Supply Power** Batteries **Battery Life** Sensor Type Optional

Transmitted Range Value **Temperature** 

Humidity Accuracy

**Temperature** RH Indication A/D Resolution

Mounting **RH Probe Temp Probe**  3.6 VDC, Battery Power Only Two AA 3.6V lithium batteries (included) 8 years @ 20 second intervals Temperature, 10K-2 thermistor Humidity, Capacitive

Overall Range, -40° to 185°F (-40° to 85°C)

Overall Range 0-100% RH Transmitted Accuracy

Thermistor, 10K type 2, ±0.5°F (±0.32°C)

2% Capacitive, 10-90% @ 77°F LED on Transmit 10 bit (1024 counts)

Four screws direct to outside wall 2.4"L x 0.95"Ø weather shield 2.4"L x 1/4"Ø weather shield

# **RADIO TRANSMITTER**

Protocol Frequency Modulation **Transmit Power Open Air Range Transmission Time** 20ms **Transmission Interval** 

Temp. Only

RH and Temp.

**Antenna** 

Channels **Device Addresses Programming** 

Repeater Capable Compliance Temp. Only RH and Temp.

**Operating Temperature RH Transmitter Operating Humidity** Construction **Enclosure Rating** 

**Dimensions** 

Weight

Warranty

Proprietary (Point Six) 418 MHz

Frequency Modulation 1mW (0 dBm) 100' (30 m)

Can be factory programmed 20 seconds standard (Can be factory

programmed 10-300s) 40 seconds standard (Can be factory

programmed 20-300s) Internal

100 transmissions per minute Push button in field

Yes RoHS

FCC ID# T4F060811TEMP FCC ID# T4F060811RH -40° to 185°F (-40° to 85°C) -22° to 158°F (-30° to 70°C) 0% to 100% RH, Non-condensing UV-Resistant Polycarbonate, UL94 V-0

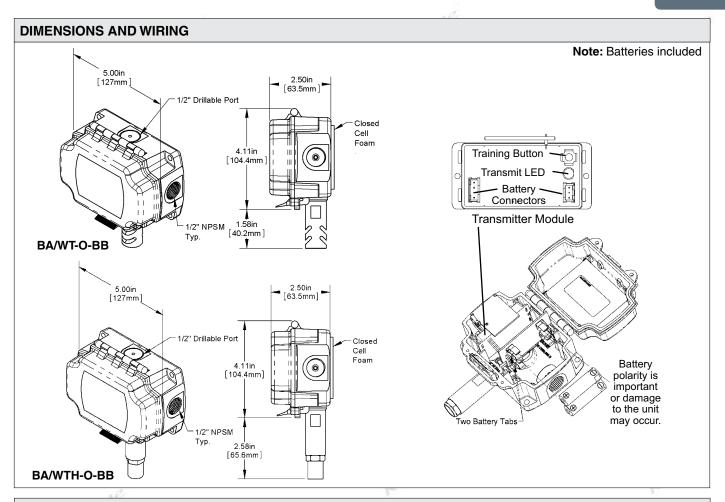
4.1"H x 5.0"W x 2.5"D (10.4 x 12.7 x 6.4 cm)

1 lb (0.45 Kg) 2 years



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# **INSTALLATION / MOUNTING**

Install the enclosure horizontally (probe down) at the highest practical elevation on the north side of a building or in permanent shade. The transmitter should not be installed inside a metal enclosure. Installing the batteries starts the wireless transmission immediately. Pushing the button of the transmitter and the button of the associated output module simultaneously will establish an address link between the two units. This should be done one at a time to avoid cross-addressing.

### **ORDERING INFORMATION**

MODEL	DESCRIPTION
BA/WT-O-BB	OSA temperature probe, 418 MHz transmitter, batteries included
BA/WTH-O-BB	OSA temperature and humidity probe, 418 MHz transmitter, batteries included

	RELATED PRODUCTS
BA/LI3620	AA lithium 3.6V battery, two required for each transmitter
BA/RCV418-EZ	BAPI receiver for 418 MHz transmitter signals to RS485
BA/RCV900-EZ	BAPI receiver for RPT repeater 900 MHz signals to RS485
BA/RPT49-EZ	9-15 VDC power BAPI repeater for 418 MHz signals with repeat at 900 MHz