BAPI WIRELESS IMMERSION TEMPERATURE TRANSMITTER

DESCRIPTION

The BAPI wireless immersion temperature transmitter BAWT-I-4 sense in-pipe conditions and send data with a battery operated 418 MHz transmitter. The sensor / transmitter is mounted in a NEMA 4 (IP66) enclosure with a 1/2" NPT stainless steel temperature immersion probe suited for four inch well insertion. 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 immersion probe lengths are available.

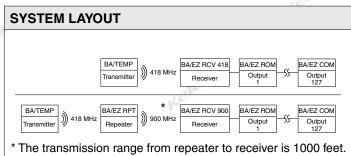
OPERATION/APPLICATION

Temperature data is transmitted via 418 MHz to a receiver. Minimum open air 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 sensing
- · Eight-year battery life
- · Built-in error detection
- Repeater available for 1000-foot range
- · Output modules available with voltage, current, or resistance outputs
- Stainless steel temperature probe
- Standard 316-stainless steel wells available
- Two-year warranty





SPECIFICATIONS

DEVICE OPERATION

Supply Voltage 3.6 VDC, Battery power only Two AA 3.6V lithium batteries (Included) **Batteries**

Battery Life 8 years @20 second intervals Temperature, 10K-2 thermistor Sensor Type **Transmitted Range Value** -40° to 185°F (-40° to 85°C)

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

Indication LED on Transmit A/D resolution 10 bit (1024 counts) Mounting 1/2" NPT Direct to well

2" probe 1.5"L from tip to 1/2" NPT

thread, 1/4" diameter

4" probe 3.5"L from tip to 1/2" NPT

thread, 1/4" diameter

8" probe 7.5"L from tip to 1/2" NPT

thread, 1/4" diameter

None

Operating Temperature -40° to 185°F (-40° to 85°C) **Operating Humidity** 0% to 100% RH, non-condensing Construction UV-Resistant Polycarbonate, UL94 V-0

Enclosure Rating IP-66

Dimensions 4.1"H x 5.0"W x 2.5"D

(10.4 x 12.7 x 6.4 cm)

Weight 1.0 lb (0.45 Kg) Warranty 2 year

RADIO TRANSMITTER

Proprietary (Point Six) Protocol Frequency 418 MHz Modulation Frequency Modulation

1mW (0 dBm) Transmit Power

Receiver Sensitivity N/A

Open Air Range 100 ft (30m)

Low Battery Indication None **Transmission time** 20ms

Transmission Interval 20 seconds standarD (Can be factory

programmed 10-300 s)

Antenn Internal Channels One

Device Addresses 100 transmissions per minute

Programming Push button in field

Repeater Capable

(can increase open air range x10) Compliance

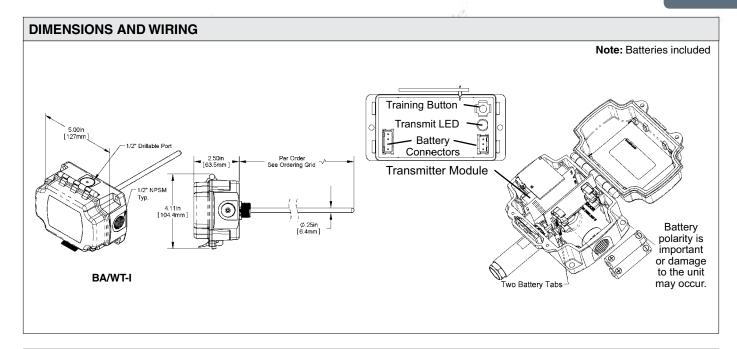
RoHS

Temp. Only FCC ID# T4F060811TEMP

Wiring

BAPI WIRELESS IMMERSION TEMPERATURE TRANSMITTER BA/WT-I





INSTALLATION / MOUNTING

Install the probe horizontally or vertically at the highest practical elevation into the pipe. The enclosure should not be installed inside a metal box or inverted. 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.

	NEORMATION
UBUEBING	INFLIBINIALILIN

MODEL	DESCRIPTION
BA/WT-I-4	Four-inch immersion temperature probe, 418 MHz transmitter, (batteries included) (wells not 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

SS well used with 2" BAPI immersion sensor **WS-4** SS well used with 4" BAPI immersion sensor **WS-6 WS-9** SS well used with 8" BAPI immersion sensor