

WIRELESS

BAPI WIRELESS REMOTE PROBE TEMPERATURE TRANSMITTER BA/WT-RPP

DESCRIPTION

The **BAPI BA/WT-RPP wireless remote temperature probes** feature a 1.75" stainless steel probe with 5, 10, or 25 feet of plenum-rated cable. The watertight BAPI-Box enclosure houses a 418 MHz, battery-operated transmitter. Remote probes are commonly used in refrigerated case or strap-on applications. They are ideal for hard-to-access areas or for applications where the usual immersion or duct sensors do not fit well. Additional cable options, lead lengths, and probe styles are available upon request. The slim wireless transmitter has an internal or external sensor available for refrigerators or equipment rack applications.

OPERATION/APPLICATION

Temperature data is transmitted via 418 MHz to a receiver. 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.

FEATURES

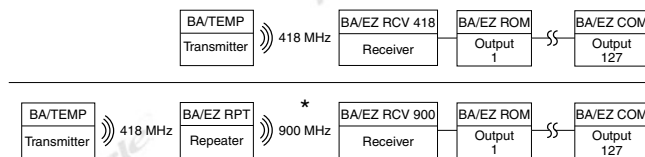
- *Wireless temperature sensing*
- *Eight-year battery life*
- *Built-in error detection*
- *Repeater available for 1000-foot range*
- *Output modules available with outputs of voltage, current, or resistance*
- *Plenum rated cable*
- *Stainless steel probe sensor*
- *Two-year warranty*



BA/WT-RPP-10-BB



SYSTEM LAYOUT



* The transmission range from repeater to receiver is 1000 feet.

SPECIFICATIONS

DEVICE OPERATION

Supply Voltage	3.6 VDC, Battery power only
Batteries	Two AA 3.6V batteries (Included)
Battery Life	8 years @20 second intervals
Sensor Type	Temperature, 10K-2 thermistor
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	Strap-on to pipe w/ties then insulate
Probe Stainless Steel	1.75" L x 1/4"Ø with FEP cable
Wiring	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

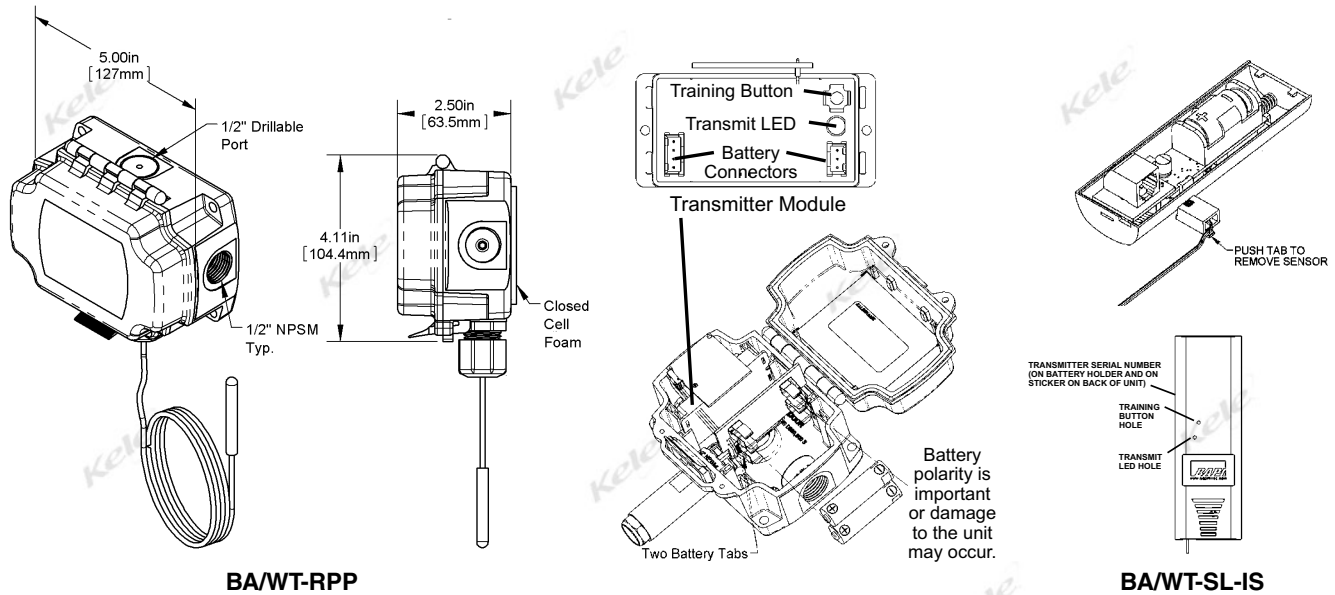
Protocol	Proprietary (Point Six)
Frequency	418 MHz
Modulation	Frequency Modulation
Transmit Power	1mW (0 dBm)
Receiver Sensitivity	N/A
Open Air Range	100 ft (30m)
Low Battery Indication	None
Transmission time	20ms
Transmission Interval	20 seconds standarD (Can be factory programmed 10-300 s)
Antenna	Internal
Channels	One
Device Addresses	100 transmitters within 100'
Programming	Push button in field
Repeater Capable	Yes, (can increase open air range x10)
Compliance	RoHS
Temp. Only	FCC ID# T4F060811TEMP

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DIMENSIONS AND WIRING

Note: Batteries included



INSTALLATION / MOUNTING

Install the enclosure horizontally (probe down) at the highest practical elevation. 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-RPP-5-BB	Remote stainless steel temperature probe, with 418 MHz transmitter and 5 feet of plenum cable, batteries included
BA/WT-RPP-10-BB	Remote stainless steel temperature probe, with 418 MHz transmitter and 10 feet of plenum cable, batteries included
BA/WT-RPP-25-BB	Remote stainless steel temperature probe, with 418 MHz transmitter and 25 feet of plenum cable, batteries included
BA/WT-SL-IS	Slim 418MHz transmitter with internal sensor
BA/WT-SL-RP-RS	Slim 418MHz transmitter with 5' ribbon cable and SS sensor
BA/WT-SL-RP-FEP5	Slim 418MHz transmitter with 5' FEP cable and SS sensor

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