

## **BAPI WIRELESS UNIVERSAL TRANSMITTERS**

BA/WAI SERIES, BA/WDI, BA/WTS

### **DESCRIPTION**

The BAPI BA/W Series wireless universal input transmitters are designed to monitor 0-5VDC, 0-10VDC or 4-20 mA signals and transmit that analog value to a receiver. The digital input version monitors any dry contact status input and transmits that On/Off status to the receiver. The thermistor temperature input version takes any 10K Type 2 thermistor sensor and transmits it to any BAPI receiver. All models transmit their data every 10-17 seconds. The units are battery operated and only require wiring from the remote input

### **FEATURES**

- Two Year Battery Powered with Replaceable Battery
- 0-5, 0-10 and 4-20mA Analog Input Models
- · Digital Input (dry contact) Model
- Thermistor Temperature Input Model
- 100' open air range, 1,000' range with a Repeater
- Transmission Interval from 20 seconds
- Easy Two-Wire Termination and Easy Setup Mode











SYSTEM LAYOUT	
ne.	BA/TEMP Transmitter  )) 418 MHz  BA/EZ RCV 418 Receiver  BA/EZ ROM Output 1  Output 127
BA/TEMP Transmitter ))) 418 MHz	BA/EZ RPT

The transmission range from repeater to receiver is 1000 feet.

### **SPECIFICATIONS**

**DEVICE OPERATION** 

**Supply Voltage Batteries** 

**Battery Life** Sensor Type

WTS WDI

WAI-(05,10)

**WAI-420 Transmitted Range Value** 

Temperature

**Digital Input** WAI-(05,10) **WAI-420** 

Output

**WTS** WDI WAI-(05,10) **WAI-420** 

Accuracy Indication

A/D resolution Mounting Wiring **Operating Temperature Operating Humidity** Construction

**Enclosure Rating Dimensions** 

Weight Warranty

1502

3.6 VDC, Battery power only

Two AA 3.6V lithium batteries (Included) 8 years @20 second intervals

Order sensor separately

Any Temperature, 10K-2 thermistor Dry Contact,  $<10\Omega$  closed,  $>250\Omega$  open

(Held for 20 seconds)

Voltage input (0-5V or 0-10V), >30K $\Omega$ Current input (4-20mA),  $100\Omega$  Imp.

-40° to 185°F (-40° to 85°C)

Open and Closed Mimics input 0-5V or 0-10V

Mimics input 4-20mA

Output modules used with these transmitters

(BA/RCV req.)

BA/(ROM, VOM, COM) (temperature range) BA/RYOL-NO-EZ, (Output Mimics Input) BA/VOM-(05,10), (Output Mimics Input) BA/COM, VOM, (Output Mimics Input) Thermistor, 10K type 2, ±0.5°F (±0.32°C)

Analog limited to A/D resolution

LED on Transmit 10 bit (1024 counts) Four corner mounting feet Two input terminals, 22-16 AWG 32° to 140°F (0° to 60°C) 5 to 95% 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)

1.0 lb (0.45 Kg) 2 year

**RADIO TRANSMITTER** 

**Protocol** 418 MHz Frequency Modulation **Transmit Power** Open Air Range

**Transmission time** 

**Transmission Interval** 

Antenna Channels

**Device Addresses** Programming

Repeater Capable Compliance

Proprietary (Point Six)

Frequency Modulation 1mW ( 0 dBm)

100 ft (30m) 20ms

20 seconds standarD (Can be factory

programmed 10-300 s)

Internal

100 transmitters within 100'

Push button in field

Yes, (can increase open air range x10) RoHS, FCC ID# T4F060811TEMP

# WIRELESS

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#### **WIRING**

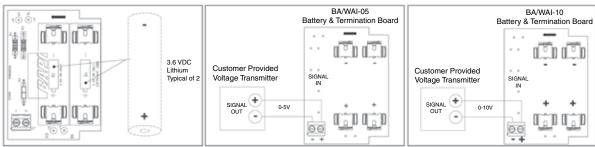
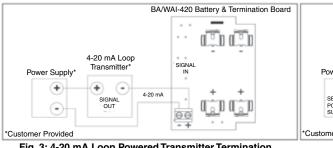


Fig. 1: Battery Installation

Fig. 2a: 0-5V Transmitter Termination

Fig. 2b: 0-10V Transmitter Termination



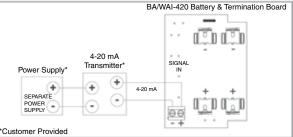
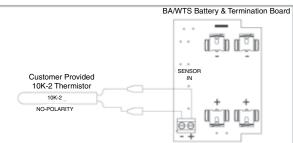


Fig. 3: 4-20 mA Loop Powered Transmitter Termination

Fig. 4: 4-20 mA 4-wire Transmitter Termination



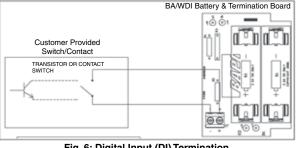


Fig. 5: 10K-2 Thermistor Termination

Fig. 6: Digital Input (DI) Termination

## **ORDERING INFORMATION**

**DESCRIPTION MODEL** BA/WAI-05 0-5VDC Analog Input Transmitter, 418 MHz BA/WAI-10 0-10VDC Analog Input Transmitter, 418 MHz **BA/WAI-420** 4-20 mA Analog Input Transmitter, 418 MHz BA/WDI Digital Input Transmitter, 418 MHz **BA/WTS** 

Thermistor Sensor Transmitter, 418 MHz (any 10K-2 thermistor purchased separately)