

Wireless Sensors

Rev. 12/20/10

Features & Options

- 8 Year Battery Life (with two 3.6V lithium batteries, full AA size)
- 100 In-Building Foot Range, Extendable to 1,000 Feet with Repeater*
- Transmitted signals can be converted to Voltage, Current or Resistive Outputs for the Controller
- Probe Lengths: 2", 4" and 8" (fit standard BAPI Thermowells)
- Watertight BAPI-Box Enclosure and Stainless Steel Probes
- Etched Teflon Leadwires & Double Encapsulated Sensors
- 2 Year Warranty



**Wireless Immersion
Temperature Transmitter**

BAPI Wireless Immersion Units are available in 2", 4" and 8" probe lengths. The sensor is potted inside a 1/4" stainless steel probe with thermally conductive epoxy. The Immersion Units come with etched teflon leadwires, double encapsulated sensors and a BAPI-Box enclosure to withstand high humidity and condensation and perform under real world conditions.

The Wireless Immersion Temperature Transmitter measures the temperature and transmits the data through 418MHz RF to a receiver. It has an in-building range of 100 feet* and an estimated battery life of 8 years using two high-capacity 3.6V lithium batteries with a transmit rate of about once every 10 seconds. Each transmitter has a unique address with built in error detection. Each variable sent by the transmitter is picked up by the receiver and converted by a BAPI Analog Output Module to a voltage, current or resistance signal which is sent to the controller. The unit can be set up to trigger an alarm on the controller when the batteries need replacing.

BAPI Thermowells

Immersion Unit Probes are designed to be inserted into a Thermowell. BAPI Thermowells are available in machined stainless steel or brass, or welded stainless steel, in lengths to match our Immersion Unit Probe Lengths. For more info, see page A60.



PART NUMBER: BA/WT-I-2" - Wireless Immersion Temperature Transmitter, 2" Probe Length
PART NUMBER: BA/WT-I-4" - Wireless Immersion Temperature Transmitter, 4" Probe Length
PART NUMBER: BA/WT-I-8" - Wireless Immersion Temperature Transmitter, 8" Probe Length
PART NUMBER: BA/LI3620 - Lithium Battery 3.6V

See end of Section H for list pricing.

**Custom Lengths of 1/4" Diameter Stainless Steel Probe are Available. Call BAPI for more information.*

Specifications

Supply Power: Two 3.6V Lithium batteries, 8 year battery life at 10 second transmit rate

Inputs: Built in thermistor

Accuracy: $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$)

Transmitted Range: -40°F to 185°F (-40°C to 85°C)

Environmental Operation Range:

Temp: -40°F to 185°F (-40°C to 85°C)

Humidity: 0% to 100% RH, non-condensing

Enclosure Rating: IP66

Enclosure Material: UV-Resistant Polycarbonate

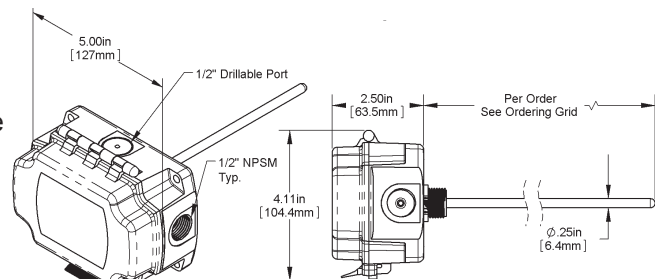
Material Rating: UL94 V-0

Radio Frequency: 418 MHz

Transmitter Interval: ~10 seconds

Antenna: Built inside the enclosure

FCC Approval: FCC ID# T4F060811TEMP



*Actual in-building transmission distances will vary depending upon building construction and other factors.