

Rev. 02/03/11

### Features & Options

- 8 Year Battery Life (with two 3.6 volt lithium batteries, full AA size)
- 100 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: 4", 8", 12" and 18"
- Watertight BAPI-Box Enclosure and Stainless Steel Probes
- Medical-Grade Foam Padding, Etched Teflon Leadwires & Double Encapsulated Sensors
- 2 Year Warranty



**Wireless Duct Temperature Transmitter**

Wireless Duct Temperature Transmitters feature medical-grade closed cell foam to seal the probe insertion hole and to absorb vibration. Mounting feet allow for easy installation directly to the wall of the duct. The Duct Units come with etched teflon leadwires, double encapsulated sensors and a watertight BAPI-Box enclosure to withstand high humidity and condensation and perform under real world conditions. The units are available with probe lengths from 4" to 18" to accommodate most duct shapes and sizes. Custom probe lengths are also available.

The Wireless Duct Temperature Transmitter measures the duct temperature and transmits the data through 418MHz RF to a receiver. It has a minimum 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 an Analog Output Module to a voltage, current or resistance signal which is sent to the controller.

### ORDERING INFORMATION

**ALC/WT-D-4"** .....Wireless Duct Temperature Transmitter, 4" Probe Length  
**ALC/WT-D-8"** .....Wireless Duct Temperature Transmitter, 8" Probe Length  
**ALC/WT-D-12"** .....Wireless Duct Temperature Transmitter, 12" Probe Length  
**ALC/WT-D-18"** .....Wireless Duct Temperature Transmitter, 18" Probe Length  
**ALC/WT-D-XX\*** .....Wireless Duct Temperature Transmitter, Custom Probe Length  
**PART #: ALC/LI3620** ..Lithium Battery 3.6V

\*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:**  $-40^{\circ}\text{F}$  to  $185^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ )

**Environmental Operation Range:**

Temp:  $-40^{\circ}\text{F}$  to  $185^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ )

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

**Enclosure Rating:** IP66

**Enclosure Material:** UV-Resistant Polycarbonate

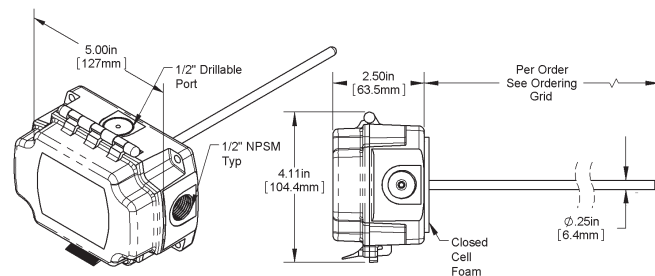
**Material Rating:** UL94 V-0

**Radio Frequency:** 418 MHz

**Transmitter Interval:** ~10 seconds

**Antenna:** Built inside the enclosure

**FCC Approval:** FCC ID# T4F060811TEMP



**Wireless Duct Temperature unit in a BAPI-Box (BB) Enclosure**

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



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