

Rev. 01/16/18

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*
- Temperature and Humidity signals can be converted to Voltage, Current or Resistive Outputs for the Controller
- Watertight BAPI-Box Enclosure
- Medical-Grade Foam Padding
- 2 Year Warranty



Wireless Duct Temperature and Humidity Transmitter

The Wireless Duct Temperature and Humidity 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 wireless Duct Units come with a watertight BAPI-Box enclosure to withstand high humidity and condensation and perform under real world conditions.

The Wireless Duct unit measures the duct temperature and humidity 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/WTH-D Wireless Duct Temperature & Humidity Transmitter, 5" Probe Length

ALC/LI3620 Lithium Battery 3.6V

Specifications

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

Sensing Elements:

- Temp. - Semiconductor Band Gap,
Proportional to Absolute Temperature, $\pm 0.54^{\circ}\text{F}$ ($\pm 0.3^{\circ}\text{C}$)
- Humidity - Capacitive Polymer, $\pm 2\%$ RH Accuracy

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

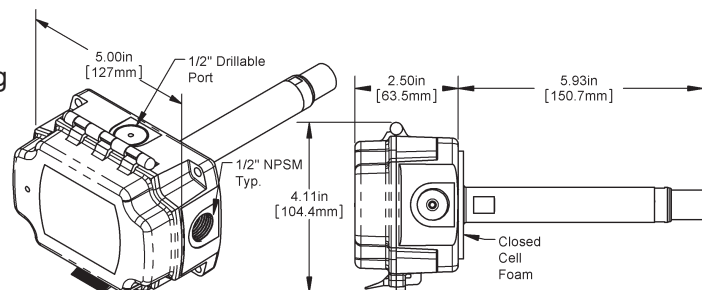
Material Rating: UL94 V-0

Radio Frequency: 418 MHz

Transmitter Interval: ~10 seconds

Antenna: Built inside the enclosure

FCC Approval: FCC ID# T4F060811TEMP
& FCC ID# T4F060811RH



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

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



Manufactured by Building Automation Products, Inc., 750 N. Royal Ave., Gays Mills, WI 54631 USA
Ph:+1-608-735-4800 • Fax:+1-608-735-4804 • E-mail:sales@bapihvac.com • Web:www.bapihvac.com

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