# Duct Temp/Humidity Sensor

Wireless System



### Features & Options

- User adjustable settings
- Onboard memory
- Transmits to a digital Gateway or a wireless-to-analog Receiver

BAPI's Duct Wireless Sensor measures environmental values and transmits the data via Bluetooth Low Energy to a receiver or gateway. This unit features a rugged IP66-rated BAPI-Box enclosure.



### Specifications

**Battery Power:** Two included 3.6V 14505, 14500 or equivalent lithium batteries (Note: Standard AA batteries are not compatible)

Wire Power: 9 to 30 VDC or 24 VAC, halfwave rectified

#### Sensor Accuracy:

Temp: ±1.0°F (0.55°C) from 32 to 158°F (0 to 70°C) Humidity: ±2%RH @ 77°F (25°C), 20 to 80%RH

Temperature Range: -4 to 221°F (-20 to 105°C)

Transmission Distance: Varies by application\*

#### **Environmental Operation Range:**

Temp: -4 to 149°F (-20 to 65°C) Humidity: **1**0 to 90%RH, non-condensing

**Enclosure Rating, Material & Material Rating:** IP66, UV-Resistant Polycarbonate, UL94 V-0

Frequency: 2.4 GHz (Bluetooth Low Energy)

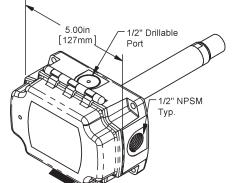
#### Receiver Sensitivity: -97 dBm

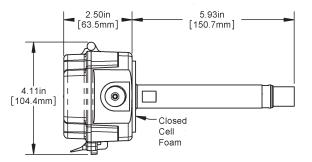
#### User Adjustable Settings:

Delta T (Temp): 0.1°F/C to 5.0°F/C Delta T (Humidity): 0.1%RH to 5.0%RH Transmit Interval: 30 sec to 12 hour\*\*\* Sample Interval: 30 sec to 5 min\*\*\* Temp Offset: ±0.1°F/C to ±5.0°F/C Humidity Offset: ±0.1%RH to ±3.0%RH

#### **Onboard Memory:**

Sensor retains up to 16,000 readings should the communication become interrupted. If using a Gateway, the data is re-transmitted once communication is re-established.





BAPI-Box Units Calculated Battery Life**			
Transmit Interval	Sample Rate	Estimated Life (years)	
30 sec	30 sec	1.04	
1 min	1 min	1.95	
3 min	1 min	3.46	
5 min	5 min	4.63	
10 min	5 min	7.02	

Agency: RoHS / FCC: T4FSM220809 / IC: 9067A-SM220809

\*In-building range is dependent on obstructions such as furniture and walls and the density of those materials. In wide open spaces, the distance may be greater; in dense spaces, the distance may be less.

\*\*Actual battery life is dependent on the sensor's adjustable settings and environmental conditions.

\*\*\*The available transmit intervals and sample intervals are different depending on whether the system is using a gateway or a receiver.







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Submittal sheets without List Prices are available on our website at www.bapihvac.com

Ordering Information	
BATTERY POWER UNIT	List Price
BA/WTH-BLE-D-BB-BAT	
Wireless Duct Temperature & Humidity Sensor, Battery Power	\$406
BA/LI14505	
3.6V Lithium Battery\$3	(net price)
WIRE POWER UNIT	
BA/WTH-BLE-D-BB-PWR	
Wireless Duct Temperature & Humidity Sensor, Wire Power	\$406



## Wireless Receiver and Gateway

