

# Wireless Temperature and Humidity Sensor

## Technical Overview



### B-Scada™ Wireless Temperature and Humidity Sensor Key Features

- Measures temperature and relative humidity
- Plug and Sense capability
- Cloud Monitoring using any browser (including on mobile devices)
- LED status indicator
- Supports 915, 868 and 433 MHz frequencies
- Self-hosted option for advanced users
- Uses AC power supply or two (2) AA batteries

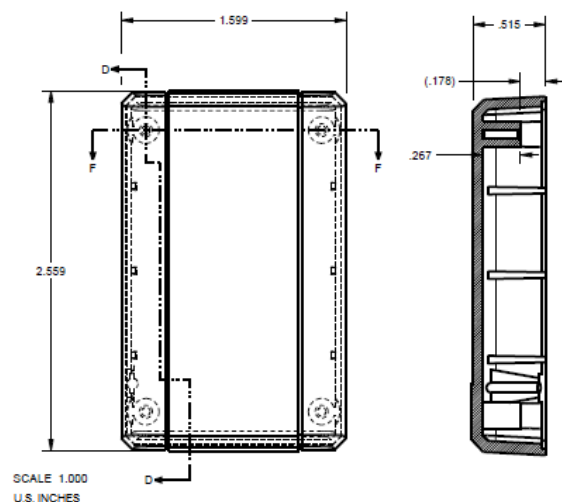
### General Description

The B-Scada™ Wireless Temperature and Humidity Sensor monitors the temperature and relative humidity within an enclosed residential and commercial room.

With B-Scada's cloud monitoring, you can easily view sensor data and set alarms using any web browser (including on mobile devices).

### Power Options

This sensor can either use an AC adapter or two (2) AA batteries. When using batteries, it is recommended to use lithium batteries. Alkaline batteries tend to leak which reduces the sensor life.



## Frequency

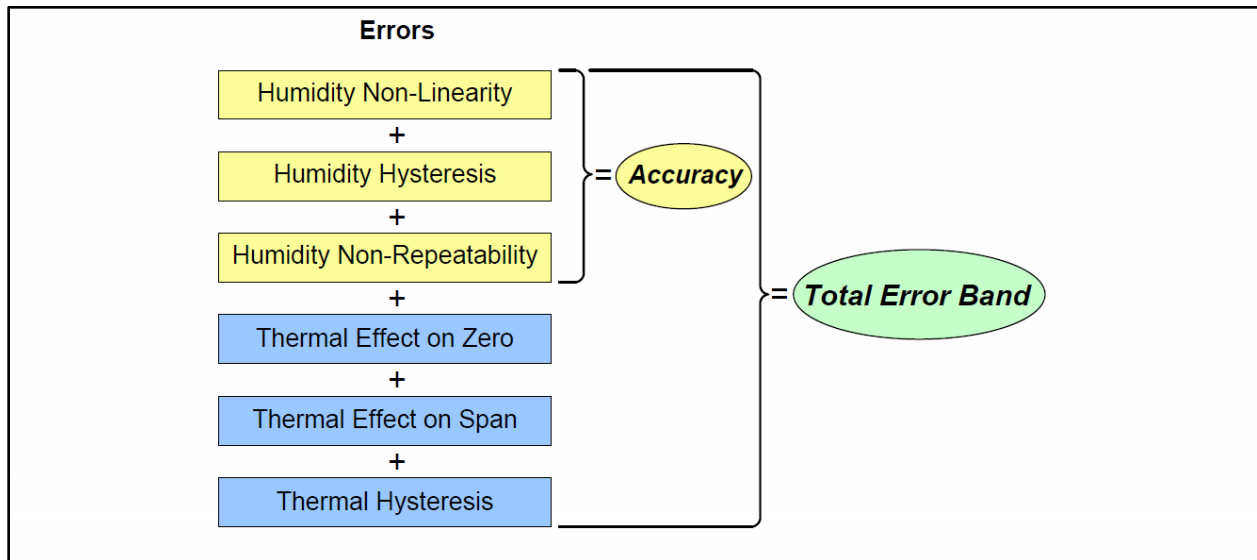
The B-Scada™ Wireless Temperature and Humidity Sensor supports RF technologies including 915, 868 and 433 MHz sensor solutions.

## Applications

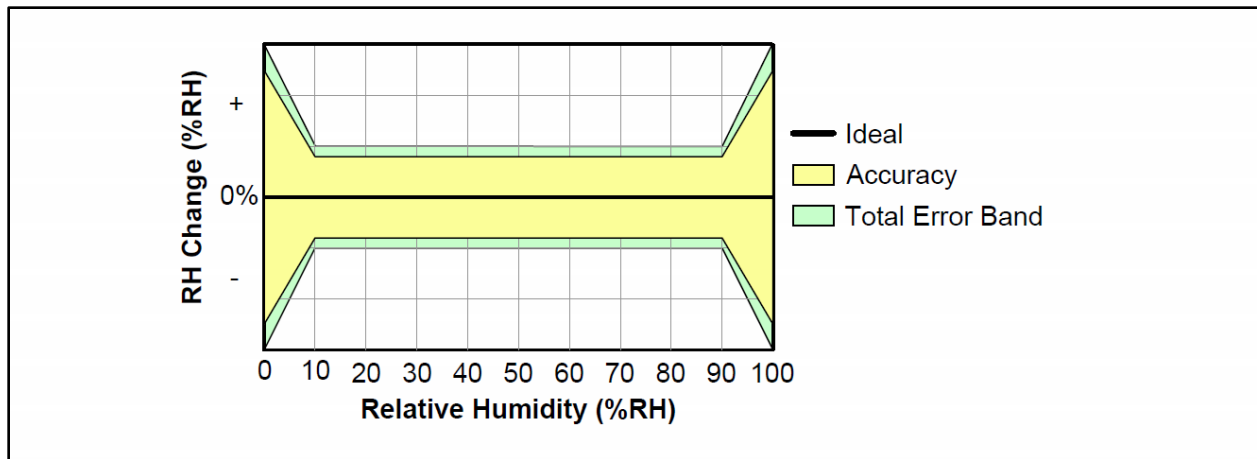
- Clean Room Monitoring
- Hotel and Motel
- Commercial Freezers
- Ventilation Ducts
- Greenhouses
- Pet and Livestock Quarters

## Total Error Band


The Total Error Band (TEB) specification on a humidity/temperature sensor product data sheet can often be confusing. TEB is a single specification that includes all possible sources of error. TEB should not be confused with accuracy, which is actually a component of TEB:



TEB is the maximum deviation from the ideal transfer function of relative humidity over the compensated temperature range and from 10 %RH to 90 %RH.



In other words, TEB is the worst error that the sensor could see. The TEB specification is used in Wireless Temperature and Humidity Sensor product data sheet because it is the most comprehensive, clear and meaningful measurement of a sensor's true accuracy.

B-Scada™ Wireless Temperature and Humidity Sensor Specifications	
<b>General</b>	
Number of Ports	1 Port: Power
Sensor Types	Wireless Temperature and Humidity Sensor
<b>Radio</b>	
Frequency	915 MHz 868 MHz 433 MHz
Antenna	External
Range	Approx. 200m – 400m (625 ft. – 1350 ft.)*
<b>Power</b>	
Power Supply	3.3 V AC Adapter or two (2) AA Batteries**
<b>Visual Indicators</b>	
LED	1 LED: Connection Status***
<b>Mechanical</b>	
Enclosure	Plastic
Dimensions	39.599 x 64.999 x 13.081 mm
Weight	2.20 ounces
<b>Environmental</b>	
Operating Temperature	-7° C to 60° C (20° F to 140° F)
<b>Accuracy</b>	
RH Total Error Band (TEB)	±5 %RH
Temperature Accuracy	±0.5 °C
<b>Certification</b>	
	

\* Actual range may vary depending on environment.

\*\* Battery life will depend on several factors. The update rate or how often the sensor sends data to the gateway affects battery life. Faster update rates utilize more battery. Another factor is the frequency range. The slower the speed (long range), the shorter the battery life due to longer wake and transmit times. Lastly, the type of sensor used. Sensors like the Thermistor uses more power due to extra hardware parts compared to a Water Detection sensor.

\*\*\* A blinking LED light indicates a successful connection to the gateway.

**Notice:**

Do not use this product under conditions where there is presence of corrosive gas or deoxidizing gas, flammable gas, dusty conditions, wet or excessively humid locations and other hazardous conditions.

Higher temperature may cause deterioration that will shorten the life of the sensor.



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**Complies with FCC and Industry Canada Standards**