

Wireless Temperature Sensor with Lead

Technical Overview



B-Scada™ Wireless Temperature Sensor Key Features

- Monitors temperature using an NTC thermistor
- 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

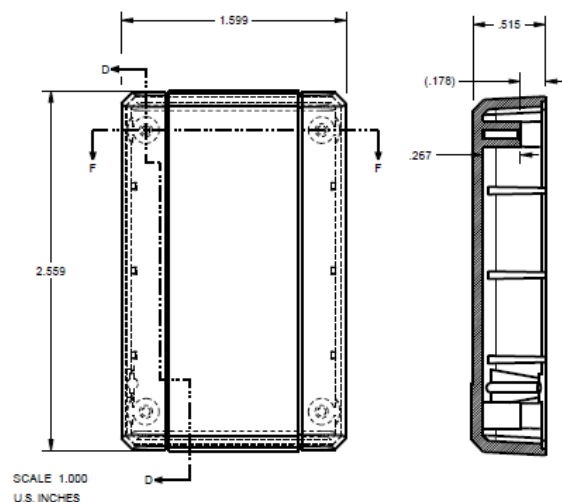
General Description

The B-Scada™ Wireless Temperature Sensor measures temperature away from the sensor circuitry, allowing a wider range of temperature measurement. The probe has an NTC Thermistor that is insulated with heat conductive water resistant materials providing excellent insulation, high strength and high impact resistance.

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 Sensor supports RF technologies including 915, 868 and 433 MHz sensor solutions.

Applications

- Environmental Monitoring
- Restaurant Hot and Cold Wells
- Swimming Pools
- Pharmacies and Laboratories
- Water Treatment Plants

B-Scada™ Wireless Temperature Sensor Specifications	
General	
Number of Ports	1 Port: Power
Sensor Types	Wireless Temperature Sensor with Lead
Radio	
Frequency	915 MHz 868 MHz 433 MHz
Antenna	External
Range	Approx. 200m – 400m (625 ft. – 1350 ft.)*
Power	
Power Supply	3.3 V AC Adapter or two (2) AA Batteries**
Visual Indicators	
LED	1 LED: Connection Status***
Mechanical	
Enclosure	Plastic
Dimensions	39.599 x 64.999 x 13.081 mm
Weight	2.20 ounces
Environmental	
Operating Temperature (Sensor Board Circuitry)	-7° C to 60° C (20° F to 140° F)
Certification	

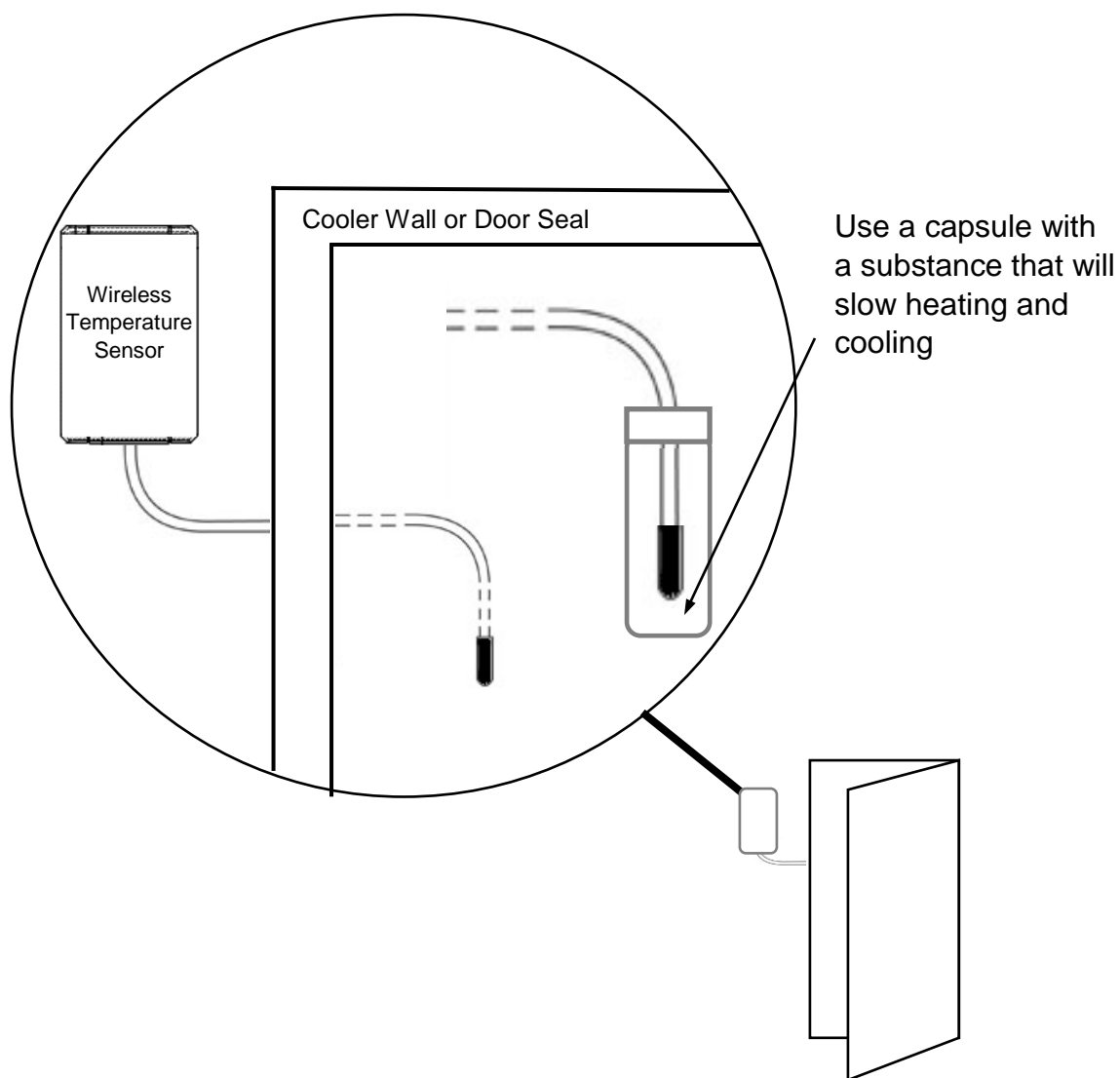
* Actual range may vary depending on environment.

** 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.

Lead Probe Specifications	
Operating Temperature	-55° C to 125° C (-67° F to 257° F)*
Resistance Tolerance	±1%
B Value Tolerance	±2%
Time Constant	≤15S to 70S
Cable Length	3 ft.
Package/Case	Bead
Insulation	Dipped Ethoxyline Resin
Mounting Type	Hanging

Sample Application



We recommend using a capsule with a substance that will slow down the heating and cooling of the temperature probe. This will provide consistent temperature readings of the cooler especially during the time when the cooler door is opened.

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