ALERTON

Wireless Temperature and Humidity Sensor

Features and highlights

- **Wireless**
  Saves installation costs and maintains integrity and look of existing décor.

- **Powerful**
  Offers long battery life, 100-foot range, and enough unique settings to enable thousands of devices to work independently without interference.

Alerton's Wireless Temperature and Humidity Sensor integrates seamlessly with the AZW-5000 wireless system to make temperature and humidity data available to a wide range of VisualLogic® controllers. It is part of a fully programmable building automation system that does not require opening walls to run wires. There are two models of the Wireless Temperature and Humidity Sensor: one with a temperature setpoint knob and manual override (WTS-1050-H), and one without setpoint or override (WTS-1000-H).

The Wireless Temperature and Humidity Sensor meets a building owner's demand for energy efficient, accurate control without the time and cost of running wiring and conduit. The added flexibility of wireless sensors in building automation systems saves time and money while improving performance.

The Wireless Temperature and Humidity Sensor is ideal for buildings where décor cannot be scarred by cutting into walls. It provides precision control that saves time, reduces costs, and preserves a building's appearance. Combined with Alerton's AZW-5000, BCMs, and VisualLogic controllers, the Wireless Temperature and Humidity Sensor is part of a complete wireless networking solution.

Wireless Temperature and Humidity Sensor

Technical data

- **Battery**   5 years with two AA Lithium batteries (included).

- **Max. Dimensions**
  Receiver   5.5" (140mm)H x 3.2" (81mm)W x 2.2" (56mm)D.
  Sensor   4.68" (119mm)H x 3.0" (77mm)W x 1.16" (29mm)D.

- **Environmental**
  Wall Module Operating Temperature   45–99 deg. F (7–37 deg. C).
  Storage Temperature   -40–150 deg. F (-40–65.5 deg. C).
  Operating Humidity   5–95% RH (non-condensing).

- **Accuracy**   +/- 1 deg. F (+/- 0.5 deg. C) across 12–30 deg. C.
  +/- 3% RH (non-condensing).

- **Transmission interval**   30 seconds.

- **Radio**
   Frequency   2.4 GHz.
   Compliance   IEEE Std 802.15.4-2003 compliant.
   Open Range   100 feet.
   Typical Range   100 feet.
   Output power WTS-1000-H, WTS-1050-H   16dBm.
                 WTS-1000-H-E, WTS-1050-H-E   12dBm.

- **Ratings**
  Part 15 of the FCC rules. Operation is subject to the following two conditions:

  1) This device may not cause harmful interference, and

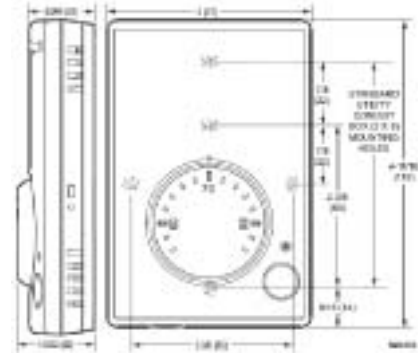 2) This device must accept any interference received, including interference that may cause undesired operation.

Fig.1 Sensor dimensions.

Specifications subject to change without notice.

Ordering information

Item number	Description
WTS-1000-H	Wireless temperature and humidity sensor
WTS-1050-H	Wireless temperature and humidity sensor with temperature adjustment knob and manual override
WTS-1000-H-E	Wireless temperature and humidity sensor (European markets)
WTS-1050-H-E	Wireless temperature and humidity sensor with temperature adjustment knob and manual override (European markets)