

Wireless Standard Sensor

Energy Harvesting Wireless Room Sensor

As part of Automated Logic's wireless sensing line, the wireless standard sensors are used to measure temperature and humidity in a space. Because there are no wires to run, they can be mounted virtually anywhere in your building.

Wireless sensors work in conjunction with a wireless adapter, which enables wireless communication between the wireless sensors and a WebCTRL® BACnet controller in the space. By sensing temperature and humidity wirelessly, our WebCTRL controllers can make smart decisions to optimize the control of heating and cooling systems in the building, providing optimum occupant comfort and energy efficiency.



Key Features and Benefits

Automated Logic Wireless System Features

- Wireless EnOcean® Technology - batteries are not required when there is sufficient ambient light to power the sensor
- Smart Monitoring - key sensor statuses are monitored and shared with the WebCTRL system for intelligent alarming, Fault Detection and Diagnostics, and proactive maintenance
 - Backup capacitor charge
 - Sensor signal strength
 - Heartbeat - detects when a sensor goes offline
- Designed to co-exist on Rnet with Automated Logic's wired ZS sensors
 - Single-zone controllers can support a total of 5 sensors
 - Multi-zone controllers can support up to 15 sensors
- Robust and reliable communications through walls and minimal obstructions up to 80' away from wireless adapter

Easy to Install

- Wireless software included for quick & easy commissioning

Global Compatibility

- Will be available in different frequencies for different parts of the world
- Supports English and metric units

Sensing Capabilities

- Temperature only option
- Temperature and relative humidity option
- Temperature through remote thermistor (sold separately) such as a remote temperature probe for cooler or duct uses as well as the NSB line button, flush wall, and outdoor temperature sensors.

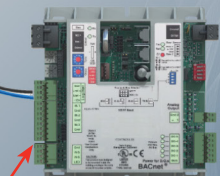
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Set this sensor to detect temperature only or to detect both temperature and humidity, or connect a remote thermistor to monitor temperature in another location.



Wireless adapter

The wireless adapter enables communication between the wireless sensors and any WebCTRL controller, allowing it to optimize control of the HVAC and lighting systems.





WebCTRL® controller

Provides optimized control of HVAC and lighting equipment in the space based on sensed values.

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Specifications

Temperature sensor measuring range	32°F to 104°F (0° to 40°C)
Humidity sensor	11% to 89%, ±3% RH typical
Power supply	Solar harvesting, internal energy storage
Supplemental battery option	A 1/2 AA 3.6V 1200 mA battery is included to supplement power during commissioning and for low-light conditions
Protocol	Customized version of EnOcean®
Radio frequency	902 MHz (North America)
Transmission range	Typically 75-80 ft. (22.86-24.38 m) maximum interior installation from wireless adapter, assuming sensor and wireless adapter are separated by no more than 1 drop ceiling or 2 walls (drywall with metal studs). Highly dependent on obstacles position and decor. 500+ ft line of sight.
Transmission interval	Configurable in SensorBuilder. The sensor transmits: <ul style="list-style-type: none"> • On change of sensed value, and • At a regular interval (heartbeat). The default is every 900 seconds (15 minutes). Set the heartbeat to 0 to transmit only when value changes.
Change of value threshold	Configurable in SensorBuilder. The temperature must change by at least .288°F (.156°C) (the default) for the sensor to send a change of value.
Maximum operating life with no light power or battery	Up to 5 days at full charge with no battery and no external light power (defined as less than 50 lux).
Minimum illumination strength	150 lux, constant
Time to fully charge	Depends on available lux. Full charge in approximately 8 hours @ 1000 lux or 24 hours @333 lux.
Degree of protection	IP20
Operating environment	32°F to 122°F (0° to 50°C) 5% to 95% relative humidity (non-condensing)
Housing	ABS plastic, bright white color
Weight	.20 lbs (.08 kg), shipping weight .30 lbs (.14 kg)
Dimensions	3.555 W x 3.768 H x 0.840 D (in), 9.030 W x 9.570 H x 2.134 D (cm)
Compliance	<p>United States of America: FCC CFR 47, Chapter 1, Subchapter A, Part 15, Subpart B, Class B Contains FCC ID: SZV-STM300U</p> <p>Canada: Industry Canada Compliant, ICES-003, Class B Contains IC ID: 6713A-STM300U</p> <p>Europe:  Mark Low Voltage Directive: 2014/35/EU RoHS Compliant: 2011/65/EU</p> <p>Australia and New Zealand:  C-Tick Mark, AS/NZS 61000-6-3</p>

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