

Wireless Plus Sensor

Energy Harvesting Wireless Room Sensor

As part of Automated Logic's wireless sensing line, wireless Plus 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 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

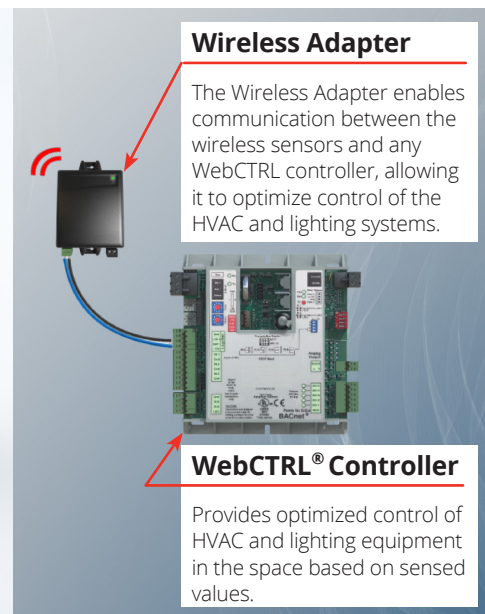
Flexible Sensing Options

- Temperature only
- Temperature and relative humidity
- Both options include slider for adjusting heat/cool setpoints



Wireless Plus Sensor

Enjoy the monitoring features of the Wireless Standard sensor, with the addition of a setpoint slide for adjusting room temperature.



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 1200mA 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. Sensor will fully charge in 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	United States of America: FCC CFR 47, Chapter 1, Subchapter A, Part 15, Subpart B, Class B Contains FCC ID: SZV-STM300U Canada: Industry Canada Compliant, ICES-003, Class B Contains IC ID: 6713A-STM300U Europe:  Mark Low Voltage Directive: 2014/35/EU RoHS Compliant: 2011/65/EU Australia and New Zealand:  C-Tick Mark AS/NZS 61000-6-3

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