Wireless Pro-F Sensor

Energy Harvesting Wireless Room Sensor

AUTOMATEDLOGIC
United Technologies

As part of Automated Logic's wireless sensing line, wireless Pro-F sensors are used to measure temperature, humidity, and occupancy 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, humidity, and occupancy 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.
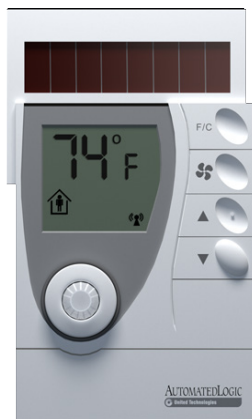
Key Features and Benefits

Easy to Install
- Communicates on the Rnet sensor network, via a wireless adapter
- Can be installed up to 60' away from wireless adapter
- Enables wireless sensing on new or retrofit projects
- Wireless software included for quick & easy sensor pairing
- Available in different frequencies for different parts of the world

Comprehensive Capabilities
- Temperature, relative humidity, and motion sensing
- Includes Fahrenheit (°F) | Celsius (°C) toggle button
- Includes heat/cool setpoints adjustment
- Includes fan control
- Includes digital display

Automated Logic Wireless System Benefits
- Wireless and battery-less space sensors (assuming sufficient lighting exists in space)
- Maintenance-free capacitors power the sensors during unlit periods for up to 4-days without a light source
- Easy and cost-effective installation
- No repeaters or amplifiers required for zone-based applications
- Sensors transmit on COV (change of value), to save energy
- Integrates seamlessly with WebCTRL alarming for proactive monitoring of important sensor conditions, including:
  - Sensor backup capacitor charge
  - Sensor signal strength
  - Sensor offline
- Can co-exist on Rnet with Automated Logic's wired ZS sensors
  - Single-program controllers can support a total of 5 sensors
 - Multi-program controllers can support up to 15 sensors

Wireless Pro-F Sensor

This sensor is the complete monitoring package, including temperature and humidity sensing, an onboard passive infrared (PIR) motion sensor, setpoint adjustment and a digital display.

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.
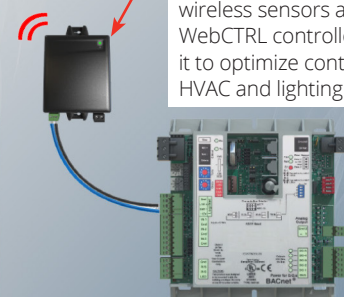
WebCTRL® Controller

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

We make data **big.**™
Next level building automation engineered to help you make smart decisions.

Wireless Pro-F Sensor

Specifications

Temperature sensor measuring range	32˚F to 104˚F (0˚ to 40˚C) **NOTE** If temperature exceeds 104°F (40°C), sensor will report 104°F (40°C) until temperature drops below this limit.
Humidity sensor	0% to 100%, **±**3% RH typical. 5% drift per year.
Motion sensor	Panasonic AMN42122 - Effective detection range: 16.4 ft. (5 m) maximum
Power supply	Solar harvesting, internal energy storage
Supplemental battery option	Two SAFT LS-14500 AA 3.6V batteries. Not user replaceable. Undernormal conditions. Life expectancy is 5 to 10 years.
Protocol	Customized version of EnOcean®
Radio frequency	902 MHz (North America)
Transmission range	Typically, 60 ft. (18.29 m) maximum from wireless adapter, assuming sensor and wireless adapter are separated by no more than 1 drop ceiling or 2 walls (drywall with metal studs).
Transmission interval	Configurable in SensorBuilder. The sensor transmits: • 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 4 days
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	IP30
Operating environment	32˚F to 122˚F (0˚ to 50˚C) 5% to 95% relative humidity (non-condensing)
Housing	ABS plastic, traffic white color
Weight	0.48 lb. (0.22 kg)
Dimensions	3.7 in. W x 6.24 in. H x .79 in. D| 9.4 cm W x 15.85 cm H x 2 cm D
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: CE 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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