



Resonate Temperature and Humidity Space Sensor - 902MHz



Overview

The Resonate family of temperature and relative humidity sensors is designed to provide a reliable and simple method to set up intelligent automation of interior spaces for energy savings. The Resonate family sets a new bench mark in temperature accuracy and update speed of temperature changes. The units are accurate to 0.3°C and 3% relative humidity. These sensors are suitable for Variable Volume Temperature (VVT) or Variable Air Volume (VAV) forced air systems.

Applications

- Temperature/Humidity Monitoring

Features & Benefits

- Temperature accuracy of 0.5°F/ 0.3°C
- Relative Humidity accuracy of 3%
- Integrated solar cell + light level LED
- 24m transmission range in interior areas
- Up to 200 hr operation in total darkness

Model Selection

WI-RTS-1H-UW	Room humidity and temperature sensor, wireless (902MHz)
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Note: Other models available. Please contact your Field Device Associate for more information.

Optional Batteries

07BAT-CR2032XXX	3V Lithium coin cell (225mAh, 3V, 20mm).
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Product Specifications

Hardware

- Temperature _____ 0°C to 40°C (32°F to 104°F) range
_____ 0.3°C (0.5°F) accuracy
- Humidity Sensor _____ 20 to 95% range, 3% accuracy
_____ 0.4% resolution
- Power Supply _____ Integrated solar cell
- Operational light level _____ 15 lux (2 fc)
 - Minimum charge time to begin operation _____ 2 minutes @ 200 lux (20 fc)
 - Charging Light Level _____ above 100 lux (10 fc)
 - Maintain charge time _____ 2 hours per 24 hours @ 200 lux (20 fc)
 - Maximum charge time _____ 6 hours at 200 lux (20 fc)
 - Operating life at full charge _____ 200 hours @ 0 lux
 - Battery - start assist _____ CR2032 coin cell (optional - not included)
- Input _____ Teach button for assignment to receiver
- Outputs _____ Test mode LEDs - red, green and amber
- Communications
- Radio Frequency _____ 902 MHz(U)
 - Antenna _____ Integrated whip
 - Transmission Range _____ 24 m (80 ft) - commercial office space (typical)
- Temperature Monitoring

	Sampling Rate	Telegram Period
Light level > 100 lux (10 fc)	10 seconds	on 0.3°C (0.5°F) change or
Light level < 100 lux (10 fc)	100 seconds	10 samples or 3% humidity
After 24 hrs @ < 15 lux (2 fc)	200 seconds	change

Mechanical

- Operating Temperature _____ -25°C to 65°C (-13°F to 145°F)
- Relative Humidity _____ 5% to 92% RH (non-condensing)
- Weight _____ 130 g (4.5 oz)
- Dimensions _____ 135 x 72 x 24 mm (5.3 x 2.8 x 0.9")
- Mounting _____ Screws or double sided tape (not supplied)

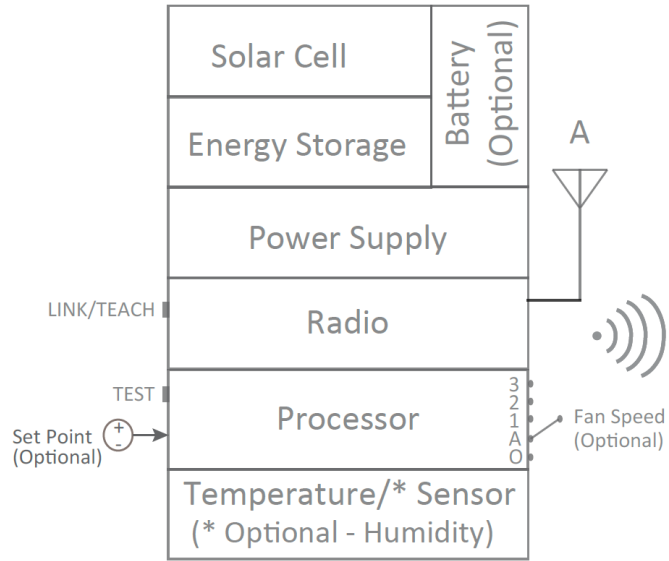
Agency Listing & Compliance (902 and 315 MHz only)

- FCC _____ Part 15.231 - Remote Control Transmitter
- IC _____ RSS-210

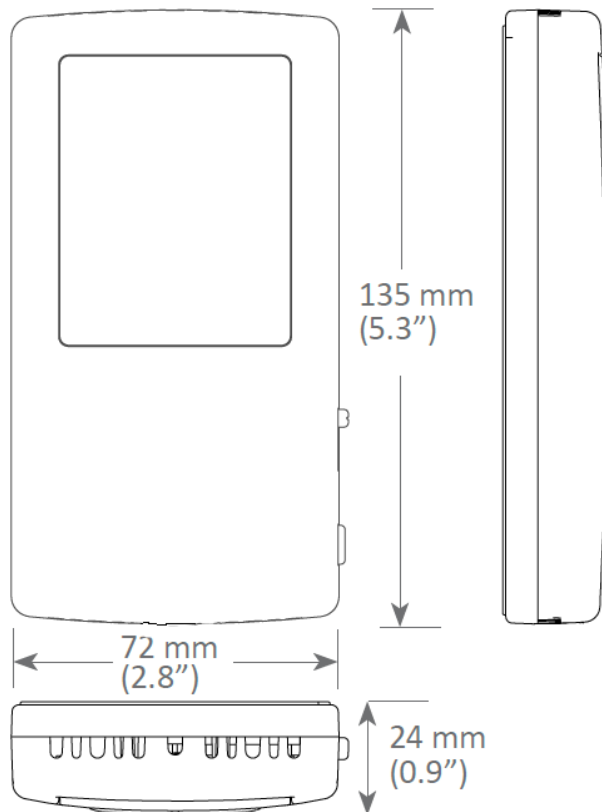
Equipment Profiles

- EEP A5-02-05 _____ Temperature Sensor
- EEP A5-04-01 _____ Temperature + Humidity

Block Diagram



Dimensions



Specifications subject to change without notice.
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