

Lifetime Power® Wireless Temperature and Humidity Sensor

The Lifetime Power Wireless Temperature and Humidity Sensor (WSN-1001) is a battery-less sensor that is powered wirelessly by radio waves for applications such as HVAC control, building automation, and industrial monitoring. It reports accurate temperature and humidity measurements in real-time to Powercast's Building Automation System (BAS) Gateway. The gateway receives data from up to 100 sensor devices and interfaces to a wide range of standard BAS protocols including BACnet, Metasys, Modbus, and LonWorks.

KEY FEATURES

- Internal temperature and humidity sensors
- Powered wirelessly
- Automated configuration
- 802.15.4 radio hardware
- Integrated mounting flanges

BENEFITS

- No batteries, no wiring
- Maintenance-free operation
- Simple configuration and deployment
- No interference with or from Wi-Fi
- Multiple units powered from a single power transmitter

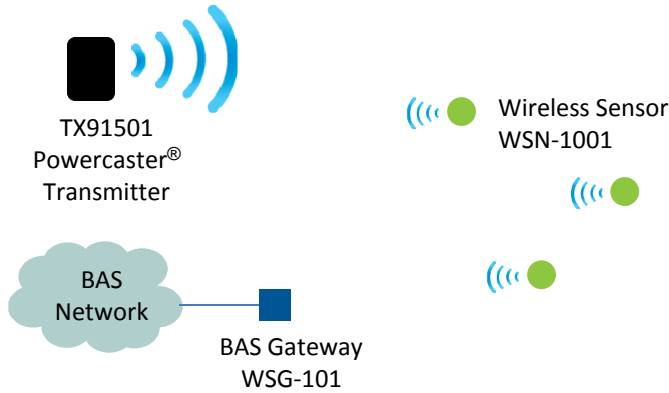
- ***Powered wirelessly***
- ***No wires to install***
- ***No batteries to replace***



WSN-1001 - Product Datasheet

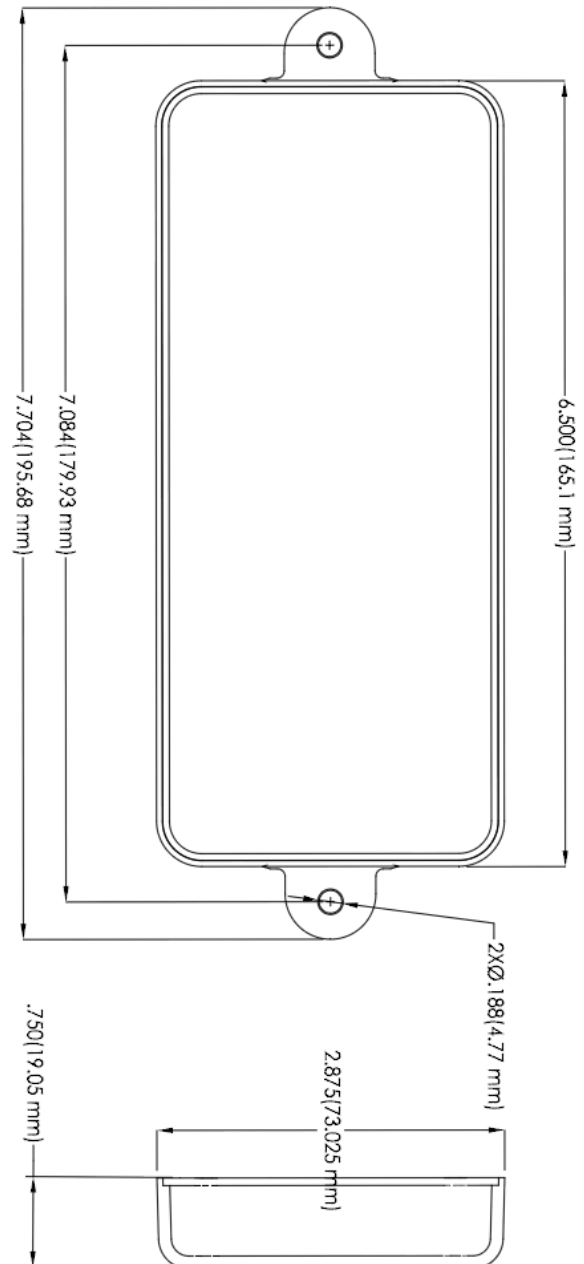


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SPECIFICATIONS

| | |
|-----------------------------|--|
| Radio | IEEE 802.15.4, 2.4GHz |
| Approvals | FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF24J0MA Contains IC: 7693A-24J40MA |
| Antennas | Rx – 915MHz, internal, 120° Tx – 2.4GHz, internal, 360° |
| Range | Power – up to 60 feet line of sight Data – 100 ft indoor in typical commercial office building |
| Accuracy | • Temperature: +/- 1°F (55-85°F) • Humidity: +/- 3% (10-90) |
| Power | RF energy (915MHz) from Powercaster transmitter |
| Enclosure | ABS, UL94-5VA rating, Bone color |
| Configuration Port | USB mini-B connector |
| Mounting | • Wall mount, vertical, indoors • Face toward power transmitter • Optimal mounting height: 7 ft. |
| Dimensions | 6.50x2.88x1.13 in. (excluding flanges) |
| Environment | -20°C to 50°C, indoor use only |
| Transmitted Data for BAS | Node ID, Temperature, Humidity, RSSI, Power Transmitter ID |
| Weight | <0.5 lbs. |



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