

# WSN-1201

## Lifetime Power® Wireless Sensor – 915MHz

The WSN-1201 Lifetime Power Wireless Sensor is a battery-powered, multi-sensor device for applications such as HVAC control, building automation, energy management, and industrial monitoring. The WSN-1201 measures and transmits temperature, humidity, dew point, light level, external temperature or contact closure measurements once per minute. It has a small form factor, is wall mountable, and has an operating life that exceeds 25 years with the pre-installed battery.

Data is transmitted to a WSG-102 wireless gateway or repeater, which extends operation to unlimited distance. The WSG-102 gateway receives data from up to 100 sensor devices and interfaces to a wide range of standard BAS protocols including BACnet, Modbus, LonWorks, and Metasys N2. SNMP and XML protocols are available for IT systems.



### KEY FEATURES

- Multiple sensor options
- 25+ year battery life
- No calibration, stable long-life performance
- Small form factor with internal antenna

### BENEFITS

- Maintenance-free: No battery replacement
- Easy installation: No wiring or conduit
- No interference with or from Wi-Fi
- Off-site or on-site configuration

## Temperature, Humidity, Dew Point, External Temperature, Light level, and Contact Closure

### SPECIFICATIONS

<b>Part Numbers</b>	WSN-1201- <u>X</u> - <u>Y</u> X=Type, Y=Battery <u>Type</u> T = Temperature THD = Temp, Humidity, Dew Point T2XT = Temp + 2 External 10K ports L = Light Level C = Contact Closure / Digital Input (2 ports)  <u>Battery</u> N = 25+ year non-replaceable R = replaceable
<b>Radio</b>	902-928MHz, internal antenna
<b>Regulatory Approvals</b>	FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF89XAM9A Contains IC: 7693A-89XAM9A
<b>Transmit Range</b>	300 ft. indoors to WSG-102 in a typical commercial office building
<b>Accuracy</b>	Temperature: ± 1°F (50-90°F) Humidity: ± 3% (10-90%RH) Dew Point: ± 4% (50-90°F, 10-90%RH) Light: ± 5% (0-10,000 lux) Thermistor ports: 10K Type 2, 10 bit resolution
<b>Power</b>	(-N) 25+ year Li battery, non-replaceable (-R) 3xAAA, replaceable 15 year battery life with Energizer L92
<b>Enclosure</b>	ABS, UL94-5VA rating, Bone or Black color
<b>Configuration Port</b>	Internal USB mini-B connector for connection to WSG-102 gateway
<b>Mounting</b>	Wall mount, vertical, indoor use only
<b>Dimensions</b>	(-N) 4.2 x 2.1 x 1.1 inches (-R) 4.2 x 2.1 x 1.7 inches
<b>Operating Temp.</b>	(-N) 0 to 90°F, indoor use only (-R) 0 to 120°F, indoor use only
<b>Storage Temp.</b>	-20 to 120°F
<b>Transmitted Data</b>	Node ID, Sensor readings, and battery voltage once per minute (non-configurable)
<b>Weight</b>	3.3 oz.

### RELATED PRODUCTS

<b>WSN-1202-CO2</b>	Wireless CO2 transmitter
<b>WSN-1202-DP</b>	Wireless Differential Pressure transmitter
<b>WSG-102</b>	Wireless Gateway / Repeater
<b>WSN-1101</b>	2.4GHz version

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### Data Reporting

The WSN-1201 wireless sensor reports its data to the WSG-102 Gateway in the following forms:

#### **WSN-1201-T** - Temperature

**S1** – Temperature (°F)

#### **WSN-1201-THD** - Temperature, Humidity, and Dew Point

**S1** – Temperature (°F)

**S2** – Humidity (%RH)

**S3** – Dew Point (°F)

#### **WSN-1201-T2XT** - Temperature & Two External Temperature

**S1** – Temperature (°F)

**S2** – External Temperature – 10K Type 2 Thermistor (°F)

**S3** – External Temperature – 10K Type 2 Thermistor (°F)

#### **WSN-1201-L** - Light Level

**S1** – Ambient Light Level (lux)

#### **WSN-1201-C** - Contact Closure

**NOTE:** Sensor DOES NOT report on change of state.

**S1** – X1 Current State (0 = open, 1 = closed)

**S2** – Count of X1 state changes during last period

**S3** – Percent of time X1 is closed during last period

**S4** – Reserved

**S5** – X2 Current State (0 = open, 1 = closed)

**S6** – Count of X2 state changes during last period

**S7** – Percent of time X2 is closed during last period

**S8** – Reserved

For additional sensor configurations, please contact Powercast.