

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.



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

SPECIFICATIONS

Part Numbers	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
Radio	902-928MHz, internal antenna
Regulatory Approvals	FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF89XAM9A Contains IC: 7693A-89XAM9A
Transmit Range	300 ft. indoors to WSG-102 in a typical commercial office building
Accuracy	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
Power	(-N) 25+ year Li battery, non-replaceable (-R) 3xAAA, replaceable 15 year battery life with Energizer L92
Enclosure	ABS, UL94-5VA rating, Bone or Black color
Configuration Port	Internal USB mini-B connector for connection to WSG-102 gateway
Mounting	Wall mount, vertical, indoor use only
Dimensions	(-N) 4.2 x 2.1 x 1.1 inches (-R) 4.2 x 2.1 x 1.7 inches
Operating Temp.	(-N) 0 to 90°F, indoor use only (-R) 0 to 120°F, indoor use only
Storage Temp.	-20 to 120°F
Transmitted Data	Node ID, Sensor readings, and battery voltage once per minute (non-configurable)
Weight	3.3 oz.

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

RELATED PRODUCTS

WSN-1202-CO2	Wireless CO2 transmitter
WSN-1202-DP	Wireless Differential Pressure transmitter
WSG-102	Wireless Gateway / Repeater
WSN-1101	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.