

WSN-1101: Lifetime Power® Wireless Sensor – 2.4GHz

The WSN-1101 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-1101 measures and transmits temperature, humidity, light level, 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-101 wireless gateway repeater, which extends operation to unlimited distance. The WSG-101 gateway receives data from up to 100 sensor devices and interfaces to a wide range of standard BAS protocols Modbus, including BACnet, 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, Light level, and Contact Closure

SPECIFICATIONS

Part Numbers	WSN-1101- X - Y X=Type, Y=Battery Type T = Temperature TH = Temp + Humidity T2XT = Temp + 2 External 10K ports L = Light Level C = Contact Closure / Digital Input (2 ports) Battery N = 25+ year non-replaceable R = replaceable
Radio	IEEE 802.15.4, 2.4GHz, internal antenna, OdBm transmit power
Regulatory Approvals	FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF24J40MA Contains IC: 7693A-24J40MA
Transmit Range	100 ft. indoors to WSG-101 in a typical commercial office building
Accuracy	Temperature: ± 1°F (50-90°F) Humidity: ± 3% (10-90%) Light: ± 5% (0-10,000 lux) RTD ports: 10K, 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 color
Configuration Port	Internal USB mini-B connector for connection to WSG-101 gateway
Mounting	Wall mount, 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.	-20 to 50°C / 32 to 122°F, indoor use only
Storage Temp.	-40 to 60°C
Transmitted Data	Node ID, Sensor readings, and battery voltage once per minute (non-configurable)
Weight	0.25 lbs.

RELATED PRODUCTS

WSN-1102-CO2	Wireless CO2 transmitter
WSN-1102-DPx	Wireless Differential Pressure transmitter
WSG-101	Wireless Gateway / Repeater
WSN-1201	915MHz version