915 MHz Wireless Sensor System - 1201 Sensors

The 1201 Series IDEAL Wireless Sensors are battery-powered, multi-sensor devices for applications such as HVAC control, building automation, energy management, industrial monitoring and data centers. The 1201 Series 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 G2 Series wireless gateway or repeaters, which extends operation to unlimited distance. The G2 Series 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   Light Level   Dry Contacts

Wireless Sensor

- Multiple sensor options
- 25+ year battery life
- No calibration, stable long-life performance
- Small form factor with internal antenna
- Maintenance-free: No battery replacement
- Easy installation: No wiring or conduit
- No interference with or from Wi-Fi
- Off-site or on-site configuration
- 3-Year Warranty

Gateway/Repeater

- Supports up to 100 devices
- Connects to virtually any BAS
- Integrated antenna
- No interference with or from Wi-Fi
- 24VAC/DC power
- 3-Year Warranty

Specifications

Part Numbers	58-N-1201- X – Y X=Type,Y=Battery
	
	Type
	  T = Temperature
	  TH = Temperature + Humidity
	  TX = Temperature + 2 External Temp 10K ports
	  L = Light Level
	  C = Contact Closure / Digital Input (2 ports)
	
	Battery
	  N = 25+ year non-replaceable
	  R = replaceable

Radio	902-928 MHz, internal antenna
Regulatory Approvals	FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF89XAM9A Contains IC: 7693A-89XAM9A
Transmit Range	300 ft. indoors to G2 Gateway/Repeater 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: ± 15% (0-1,000 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 (included)
Enclosure	ABS, UL94-5VA rating, Bone color
Configuration Port	Internal USB mini-B connector for connection to G2 Gateway/Repeater
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 104° 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.

Specifications

Frequency	902-928MHz
Approvals	FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF89XAM9A Contains IC: 7693A-89XAM9A
Antenna	Internal, 360° pattern
Range	300 ft. indoor in typical commercial office building
Power	24VAC/DC, removable terminal block
Configuration Ports	USB Type B – PC Interface USB Type A – Sensor Interface
Network Port	Ethernet, RS-485 or FTT-10
Enclosure	ABS plastic, UL94-5VA rating, color – bone
Mounting	Wall mount, vertical, indoors
Dimensions	6.6" x 4.4" x 1.75"
Environment	0 to 120°F, indoor use only
Weight	8.5 oz.

915 MHz Wireless Sensor System

Ordering Information

Wireless Sensor	
58-N-1201-T-N	Wireless temperature sensor, 25+ year battery
58-N-1201-TH-N	Wireless temperature and humidity/dew point sensor, 25+ year battery
58-N-1201-TX-N	Wireless temperature sensor, 25+ year battery – internal temperature, 2 external 10K RTD ports
58-N-1201-C-N	Wireless dry contact closure (2 inputs), 25+ year battery
58-N-1201-L-N	Wireless light level sensor, 25+ year battery

Substitute suffix -N with -R for replaceable battery version (1201 Series only).

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Metasys® is a registered trademark of Johnson Controls, Inc.
LonWorks® is a registered trademark of Echelon Corporation.

Gateway/Repeater		
Part Number	**Protocol**	**Interface**
58-G2-BACNETIP	BACnet®/IP	Ethernet
58-G2-MODBUSTCP	Modbus TCP	Ethernet
58-G2-SNMP	SNMP	Ethernet
58-G2-XML	XML	Ethernet
58-G2-BACNTMSTP	BACnet®/MSTP	RS-485
58-G2-METASYSN2	Metasys® N2	RS-485
58-G2-MODBUSRTU	Modbus RTU	RS-485
58-G2-LON	LonWorks®	FTT-10
58-G2-SERIAL	Serial Gateway/Repeater	USB
Related Products		
58-PS-24V-T	24V Power Supply	–
58-N-1202-CO2-R	Wireless CO_2 transmitter	–
58-N-1202-DP1-R	Wireless Differential Pressure transmitter +/-2" w.c./+/- 500pa	–

Sensor Data Reporting

		Temperature	Temperature, Humidity, Dew Point	Temperature Internal w/ Dual External	Contact Closure	Light
Sensor Type – 1201 Series						
	S1	Temp F°	Temp F°	Temp F° Internal	X1 Current State 0=open, 1=closed	Ambient Light Level Lux
Sensing Points	**S2**		Humidity % RH	Temp F° External 1 using 10K Type II Thermistor		
	S3		Dew Point F°	Temp F° External 2 using 10K Type II Thermistor		
	S4					
	S5				X2 Current State 0=open, 1=closed	
	S6					
	S7					
	S8					