



58-N-1102-DP1-R Wireless Differential Pressure Sensor – 2.4 GHz

The IDEAL Wireless Differential Pressure Sensor is a battery-powered sensor for HVAC control. The sensor requires no calibration and has an adjustable measurement interval. It can be mounted to a flat surface, in any vertical orientation without compromising accuracy, and has a battery life up to 15 years.

Data is transmitted to a G1 Series wireless gateway or repeater, which extends operation to unlimited distance. The G1 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.



Key Features

- Wireless Differential Pressure Sensor
- Up to 15 year battery life
- No calibration, stable long-life performance
- Internal antenna

Benefits

- Maintenance-free: Long-battery life
- Easy installation: No wiring or conduit
- No interference with or from Wi-Fi
- Off-site or on-site configuration
- 3-Year Warranty

Data Reporting

The 58-N-1102-DP1-R wireless sensor reports sensor data to the G1 Series Gateway as:

- S1** – Differential Pressure in milli-water columns
- S2** – Differential Pressure in Pascals

BACnet® is a registered trademark of ASHRAE.

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

LonWorks® is a registered trademark of Echelon Corporation.

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Specifications

Part Numbers	58-N-1102-DP1-R
Radio	2.4 GHz, Internal Antenna
Regulatory Approvals	FCC Part 15 and Industry Canada Contains FCC ID: OA3MRF24J40MA Contains IC: 7693A-24J40MA
Transmit Range	100 ft. indoors to G1 Series gateway/repeater in typical commercial office building
Zero point Accuracy	0.001" H ₂ O or 0.2 Pa
Span Accuracy	±3.0% of reading
Stability	+/- 0.25% FS/year
Process Connection	Barbed fittings for 5/32"ID flexible tubing
Measurement Range	(± 2" W.C. / ± 500pa) Resolution: 1pa
Allowable overpressure	400" W.C./100 kPa
Rated Burst Pressure	>500 kPa
Media Compatibility	Air, Nitrogen (N ₂), Oxygen (O ₂)
Power	3xAA batteries, Energizer L91 recommended. 15 year battery life @ 30 second intervals
Enclosure	ABS, UL94-5VA rating, Bone color
Configuration Port	Internal USB mini-B connector for connection to G1 Series gateway
Mounting	Wall mount, vertical, indoor use only
Dimensions	5.8 x 3.2 x 1.5 inches
Operating Temp.	0° to 120°F, indoor use only
Storage Temp.	-20° to 120°F
Transmitted Data	Node ID, pressure data, Battery voltage
Weight	7.5 oz.

Related Products

58-N-1101-X	Wireless Sensor Transmitters T = Temperature TH = Temp + Humidity TX = Temp +2 External 10K ports L = Light level C = Contact Closure / Digital Input
58-N-1102-CO2-R	2.4 GHz Wireless CO2 Transmitter
58-G1-XXXX	G1 Series 2.4 GHz Wireless Gateway/ Repeater
58-N-1202-DP1-R	915 MHz Wireless Sensor Transmitters