

SPECIFICATIONS 2017

Digi Smart Differential Pressure Sensor Wi-Fi Differential Pressure and Temperature Transmitter

The Digi Smart Differential Pressure Sensor is a battery operated differential pressure and temperature sensor with a microprocessor controlled IEEE 802.11b/g radio transceiver. The sensor has an onboard clock that allows it to spend most of the time in a low power quiescent state. Onboard calibration tables provide a linear temperature output. This information is combined with a CRC-16 error check and transmitted in a very short data packet that results in a very short transmitter on-time. This architecture allows the Digi Smart Differential Pressure Sensor to consume very low energy.



Features

- ± 500 Pa / ± 2 inch H₂O / \pm mbar differential pressure and temperature transmitter with logging
- 12dBm 2.4 GHz 802.11b/g Wi-Fi module
- Communicates with industry standard access points
- Configurable alarm utility with audible and visual alarm Indication
- Phone / email / text alerts
- Up to 3 year battery life
- Supports WEP128, WPA-PSK (TKIP), and WPA2-PSK (AES)
- Pressure and temperature sampled every 15 seconds
- Programmable log rates (2 minutes to 1 hour)

Specifications

• Differential Pressure Operating Conditions	-20° to +80°C
• Differential Pressure Measuring Range	± 500 Pa / ± 2 inch H ₂ O / ± 5 mbar
• Differential Pressure Accuracy	Better than 0.2% near zero
• Zero Point Repeatability	0.1 Pa / 0.0004 inches H ₂ O / .001 mbar
• Offset Stability	<0.1 Pa/year / <0.0004 inches H ₂ O/year / <.001 mbar/year
• Pressure Resolution	16-bit
• Allowable Overpressure	100 kPa / 400 inches H ₂ O / 1 bar
• Rated Burst Pressure	>500 Pa / >2 inch H ₂ O / >5 bar
• Temperature Accuracy (10-85°C)	$\pm .5^\circ\text{C}$
• External Power Support	3.0vDC
• Weight	5.0 oz.

For more information about Digi Smart Solutions
visit www.digi.com/smart-solutions

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