

Honeywell Sensing and Control



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SX7100D



Actual product appearance may vary.

Pressure Sensors: Measurement Type: Differential, Gage; 0 psid to 100 psid, Unamplified, Button package with RTV 730 gel applied, Button Package - No Port

Features

Low Cost
High-Impedance Bridge
Absolute and Differential (Gauge)
Low Noise
Low Power Consumption for Battery Power

Potential Applications

Medical Instrumentation
Barometric Measurement
Pneumatic Controls
Battery Powered Equipment

Description

The SX Series pressure sensors provide the lowest cost components for measuring pressures up to 150 psi. These sensors are designed for use with non-corrosive, non-ionic media, such as air and dry gases. Convenient pressure ranges are available to measure differential, gauge, and absolute pressures from 0 psi to 1 psi (SX01) up to 0 psi to 150 psi (SX150).

The Absolute (A) devices have an internal vacuum reference and an output voltage proportional to absolute pressure. The differential (D) devices allow application of pressure to either side of the diaphragm and can be used for gauge or differential pressure measurements.

This product is packaged in either the standard low cost chip carrier button package, a plastic ported N package, or a DIP package. All packages are designed for applications where the sensing element is integral to the OEM equipment. These packages can be o-ring sealed, epoxied, and/or clamped onto a pressure fitting. A closed-bridge four pin SIP configuration is provided for electrical connection to the Button or N Package. The DIP Package mounts on a PC board like a standard IC with through-hole pins. This extremely small size package enables the use of multiple sensors in applications with limited space.

Supporting Documentation

[▶ Dimensions](#)

[▶ Electrical Connections](#)

[▶ Equivalent circuit](#)

Product Specifications

Product Specifications	
Measurement Type	Differential, Gage
Signal Conditioning	Unamplified
Pressure Range	0 psid to 100 psid
Maximum Overpressure	150 psi
Supply Voltage	12 Vdc max.

Compensated	No
Output Calibration	No
Response Time	100 \pm S
Termination	PCB
Port Style	No Port
Package Style	Button
Typical Sensitivity	0.3 mV/V/psi
Full Scale Span	100 mV min., 150 mV typ., 200 mV max.
Zero Pressure Offset	-35.0 mV min., -20.0 mV typ., 0.0 mV max.
Linearity, Repeatability & Hysteresis Error	- 0.5 min., 0.2 typ., 0.5 max. % Full Scale Span
Repeatability	0.5 % span
Input Resistance	4.1 kOhms typ.
Output Resistance	4.1 kOhms typ.
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Storage Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Media Compatibility	Clean, dry gases only
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Comment	Lead Temperature Soldering 2 s to 4 s at 250 °C [482 °F]
Availability	Global
Series Name	SX

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