



SX100GSMT



Actual product appearance may vary.

Pressure Sensors: Measurement Type:
Gage; 0 psig to 100 psig Operating
Pressure, "SMT" package - No Port

Features

- Low Cost
- Small Size
- Absolute or Gauge Pressures
- High-Impedance Bridge
- Low Power Consumption

Potential Applications

- Pneumatic Controls
- Automotive Diagnostics
- Medical Equipment/Instrumentation
- Dental Equipment
- Environmental Controls
- Barometric Pressure Measurement
- Altimeters
- Pneumatic Controls
- Battery Powered Equipment

Description

The SX Series surface mount sensors provide the most cost effective method of measuring absolute and gage pressures in a fully packaged sensor. The unique package design allows measurement of both gage and absolute pressure and a ported package option in a true surface mount sensor.

Convenient pressure ranges are available to measure gage and absolute pressures for 0 psi to 1 psi to 0 psi to 150 psi.

The SX series of SMT sensors feature the standard SX chip in a ceramic surface mount package.

The standard version features a low profile plastic lid to better withstand high temperatures. The optional ported device offers a tube attachment port that is particularly useful in gage applications.

The SX SMT series sensors are designed primarily for use with clean dry gases such as air, nitrogen, and other like gasses. They offer a 4-pin closed bridge configuration for electrical connection with additional pads provided for mechanical support. Pulsed power is recommended to achieve maximum accuracy and conserve battery power in portable applications.

Product Specifications	
Measurement Type	Gage
Signal Conditioning	Unamplified
Pressure Range	0 psig to 100 psig
Maximum Overpressure	150 psi
Supply Voltage	5.0 Vdc typ., 12.0 Vdc max.
Compensated	No
Output Calibration	No
Response Time	0.1 ms typ.
Termination	PCB

Port Style	None
Package Style	Standard SMT
Typical Sensitivity	0.3 mV/mA/psi \pm .05 mV/mA/psi
Zero Pressure Offset	-35.0 mV min., -20.0 mV typ., 0.0 mV max.
Linearity, Hysteresis Error	0.2 typ. 0.5 max. %FS
Repeatability	0.5 typ. % span
Input Resistance	4.1 kOhm typ.
Output Resistance	4.1 kOhm typ.
Operating Temperature Range	-40 °C to 125 °C [-40 °F to 257 °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