

PC Board Mountable Pressure Sensor
 Temperature Compensated
 0 – 100mV Output
 Gage, Absolute, Differential
 Current Excitation

TO-8 Series

The TO-8 series is a temperature compensated, piezoresistive silicon pressure sensor packaged in a TO-8 configuration.

Integral temperature compensation is provided over a wide temperature range using laser-trimmed resistors. An additional laser-trimmed resistor is included to normalize pressure sensitivity variations by programming the gain of an external differential amplifier.



FEATURES

- TO-8 Package
- 1.0% Interchangeable Span (provided by gain set resistor)
- Solid State Reliability
- Wide Compensated Temperature Range
- ± 0.1 and ± 0.3 Pressure Non Linearity

APPLICATIONS

- Medical Instruments
- Airspeed/Altitude Measurements
- Process Control
- Factory Automation
- Vacuum Measurement
- Handheld Calibrators
- Leak Detection
- Environmental Control
- Level Detection

Product Definition

Model	Pressure Ranges	Type (G = Gage A = Absolute D = Differential)	Span	Supply Voltage	Current	Compensated Temperature	Unique Feature
13 1psi	0 - 1psi	G	100mV		1.5mA	0°C to 50°C	3/16" Top port
23 1psi	0 - 1psi	G	100mV		1.5mA	0°C to 50°C	1/8" Bottom port
33 1psi	0 - 1psi	D	100mV		1.5mA	0°C to 50°C	3/16" Top port 1/8" Bottom port
43 1psi	0 - 1psi	G	100mV		1.5mA	0°C to 50°C	No port 0.45" Cap
13 Std	0 - 2*, 5, 10, 15, 30, 50 100, 250psi	G, A	100mV		1.5mA	0°C to 50°C	3/16" Top port
23 Std	0 - 2, 5, 10, 15, 30, 50 100, 250psi	G	100mV		1.5mA	0°C to 50°C	1/8" Bottom port
33 Std	0 - 2, 5, 10, 15, 30, 50 100, 250psi	D	100mV		1.5mA	0°C to 50°C	3/16" Top port 1/8" Bottom port
43 Std	0 - 2*, 5, 10, 15, 30, 50 100, 250psi	G, A	100mV		1.5mA	0°C to 50°C	No port 0.45" Cap
17 US	0 - 15, 30, 50, 100, 250psi	G, A	100mV		1.5mA	-20°C to +85°C	UltraStable™ 3/16" Top port
27 US	0 - 15, 30, 50, 100psi	G	100mV		1.5mA	-20°C to +85°C	UltraStable™ 1/8" Bottom port
37 US	0 - 15, 30, 50, 100, 250psi	D	100mV		1.5mA	-20°C to +85°C	UltraStable™ 3/16" Top port 1/8" Bottom port
47 US	0 - 15, 30, 50, 100, 250psi	G, A	100mV		1.5mA	-20°C to +85°C	UltraStable™ No port 0.45" Cap

* = Gage only

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