

LOW COST SILICON PRESSURE SENSOR WITH AMPLIFIED VOLTAGE OUTPUT GAGE, DIFFERENTIAL, ABSOLUTE PRESSURE

PX138 Series

± 0.5 to ± 100 psi

- ✓ Available for Differential, Gage or Absolute Measurement
- ✓ Calibrated 5 Volt Output Span
- ✓ Precise Temperature Compensation
- ✓ Constant Voltage Excitation
- ✓ For Clean Dry Gas

The PX138 Series pressure transducer uses state-of-the-art micro-machined silicon pressure sensors along with stress free packaging techniques to provide highly accurate, temperature compensated pressure transducers for the most demanding applications. When operating from an 8 Vdc regulated power source, PX138 transducers provides a 1 to 6 Vdc output. Other regulated voltages from 7 to 16 volts can be used but the output will change in proportion to the excitation.

SPECIFICATIONS

Excitation Voltage: 8 Vdc (7 to 16 Vdc limits)

Output: 1 to 6 Vdc (@ 8 Vdc Exc.)

Linearity & Hysteresis: $\pm 0.1\%$ FS typical, 0.5% max (0.5% typ. 1% max for ± 0.3 psi range)

Repeatability: $\pm 0.1\%$ FS typical, 0.3% max

Zero Balance: 3.5 ± 0.05 Vdc Diff; 1 ± 0.1 Vdc Abs.

Storage Temperature:

-40 to 125°C (-40 to 257°F)

Compensated Temp Range: 0 to 50°C (32 to 122°F)

Zero Temp Effects: $\pm 0.5\%$ FS ($\pm 1\%$ FS for 0.3 psi)

Span Temp Effects: $\pm 0.5\%$ FS ($\pm 1\%$ FS for 0.3 psi)

Proof Pressure: > 3X FS Pressure

Burst Pressure: > 5X FS Pressure

Common Mode Press: 50 psi

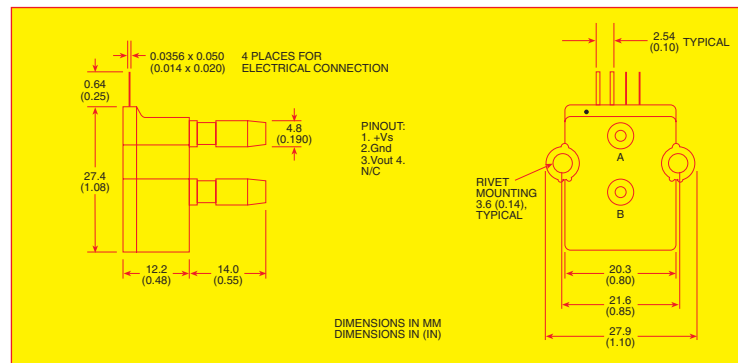
Media Compatibility: For use with gases compatible with Silicon, glass filled nylon and alumina ceramic

Mating Connector: CX136-4 (not included) see section C



PX138
\$85
Basic Unit

Shown Larger Than Actual Size.



MOST POPULAR MODELS HIGHLIGHTED

To Order (Specify Model Number)			
GAGE/DIFF	MODEL NUMBER	PRICE	COMPATIBLE METERS
± 0.3 psi	PX138-0.3D5V	\$85	DP24-E, DP25-E, DP41-E
± 1 psi	PX138-001D5V	85	DP24-E, DP25-E, DP41-E
± 5 psi	PX138-005D5V	85	DP24-E, DP25-E, DP41-E
± 15 psi	PX138-015D5V	85	DP24-E, DP25-E, DP41-E
ABSOLUTE PRESSURE RANGES			
0 to 15 psia	PX138-015A5V	59	DP24-E, DP25-E, DP41-E
0 to 30 psia	PX138-030A5V	59	DP24-E, DP25-E, DP41-E

Ordering Example: PX138-001D5V is a voltage output silicone pressure sensor with a gage/differential range of ± 1 psi, \$85, operators manual included.