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

PX138 Series ±0.5 to ±30 psi

±0.02 to ±2 bar



Available for Differential, Gage, or Absolute Measurement

MADE IN

USA

- Calibrated 5 V Output Span
- Precise Temperature Compensation
- Constant Voltage
- For Clean, Dry Gas

The PX138 Series pressure transducer uses state-of-the-art micro-machined silicon sensors with stress-free packaging techniques to provide highly accurate, temperature-compensated pressure measurements for the most demanding applications. When operating from an 8 Vdc regulated power source, the PX138 transducer provides a 1 to 6 Vdc output. Other regulated voltages from 7 to 16 V 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 and Hysteresis: ±0.1% FS typical, 0.5% max (0.5% typ. 1% max for ±0.3 psi range) Repeatability: ±0.1% FS typical, 0.3% max

Zero Balance: 3.5 ± 0.05 Vdc diff.; 1 ± 0.1 Vdc abs.

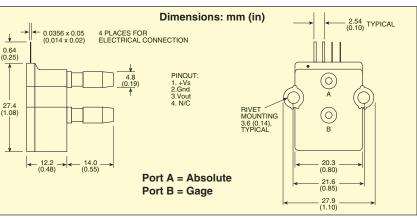
Storage Temperature: -40 to 125°C (-40 to 257°F) **Compensated Temp Range:** 0 to 50°C (32 to 122°F) **Zero Temp Effects:** ±0.5% FS (±1% FS for 0.3 psi) Technical Books Available Online!

Span Temp Effects: ±0.5% FS (±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, glassfilled nylon and alumina ceramic Mating Connector: CX136-4 (not included), see page C-10

PX138-001D5V, \$90, shown 2.5x larger than actual size.

VOLTAGE OUTPUT PRESSURE TRANSDUCERS

B



MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>					
GAGE/DIFF PRESSURE		MODEL NO.	PRICE	COMPATIBLE METERS*	
±0.3 psi	0.02 bar	PX138-0.3D5V	\$90	DP24-E, DP25B-E, DP41-E	
±1 psi	0.069 bar	PX138-001D5V	90	DP24-E, DP25B-E, DP41-E	
±15 psi	1.0 bar	PX138-015D5V	90	DP24-E, DP25B-E, DP41-E	
ABSOLUTE PRESSURE RANGES					
0 to 15 psia	0 to 1.0 bar	PX138-015A5V	\$90	DP24-E, DP25B-E, DP41-E	
0 to 30 psia	0 to 2.1 bar	PX138-030A5V	90	DP24-E, DP25B-E, DP41-E	

Comes with complete operator's manual. * See section D for compatible meters. **Ordering Example: PX138-001D5V**, voltage output silicon pressure sensor with a gage/differential range of ± 1 psi, **\$90**.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION			
PST-8	\$165	8 Vdc power supply			
CX136-4	3	4-contact connector			
OP-17	15	Reference Book: Measure for Measure			

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