

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

All Ranges
\$90



- Available for Differential, Gage, or Absolute Measurement
- Calibrated 5 V 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 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)



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, glass-filled nylon and alumina ceramic

Mating Connector: CX136-4 (not included), see page C-10

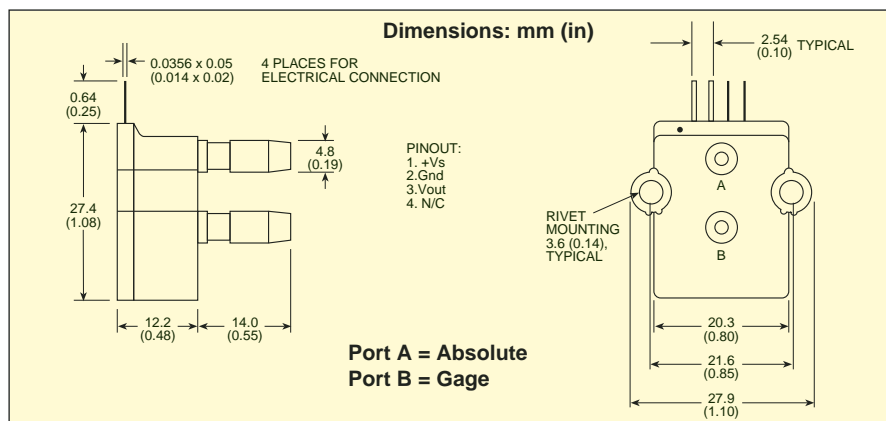


PX138-001D5V, \$90, shown 2.5x larger than actual size.



VOLTAGE OUTPUT
PRESSURE TRANSDUCERS

B



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

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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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

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• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters