

LOW-COST SILICON PRESSURE SENSOR WITH MILLIVOLT OUTPUT

0-0.3 to 0-100 psi
0-0.02 to 0-6.9 bar

PX137 Series

- ✓ Available for Differential, Gage, or Absolute Measurement
- ✓ Precision Millivolt Output
- ✓ Precise Temperature Compensation

The PX137 Series pressure transducers use state-of-the-art micro-machined silicon pressure sensors in conjunction with stress-free packaging techniques to provide highly accurate, temperature-compensated pressure measurements for the most demanding applications.

SPECIFICATIONS

Excitation Voltage: 12 Vdc (16 max)

Linearity and Hysteresis: $\pm 0.1\%$ FS typical/ 0.5% max ($0.5\%/1\%$ for 0.3 psi range)

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

Zero Balance: ± 1 mV (± 3 mV for 0.3 psi range)

Input Resistance: 10 k Ω

Storage Temp: -40 to 125°C (-40 to 257°F)

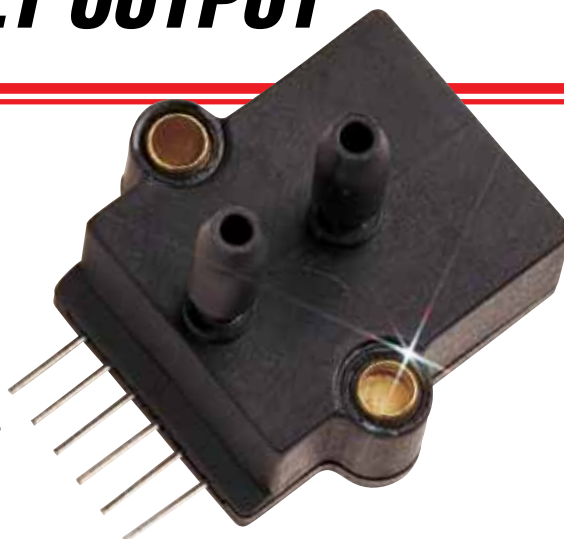
Operating Temp: 0 to 70°C (32 to 158°F)

Span Temp Effects:

$\pm 1.5\%$ FS 0 to 50°C (32 to 122°F)

$+0.5\%$ FS 50 to 70°C (122 to 158°F)

PX137-005DV, shown larger than actual size.



Zero Temp Effects:

± 0.8 mV 0 to 50°C (32 to 122°F)

$+0.2$ mV 50 to 70°C (122 to 158°F)

For 0.3 psi Range:

± 1.0 mV 0 to 50°C (32 to 122°F)

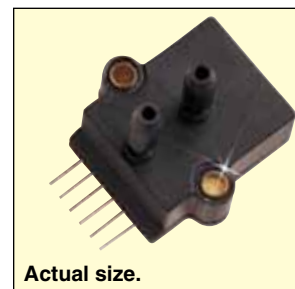
$+0.5$ mV 50 to 70°C (122 to 158°F)

Proof Pressure: $>3\times$ FS pressure

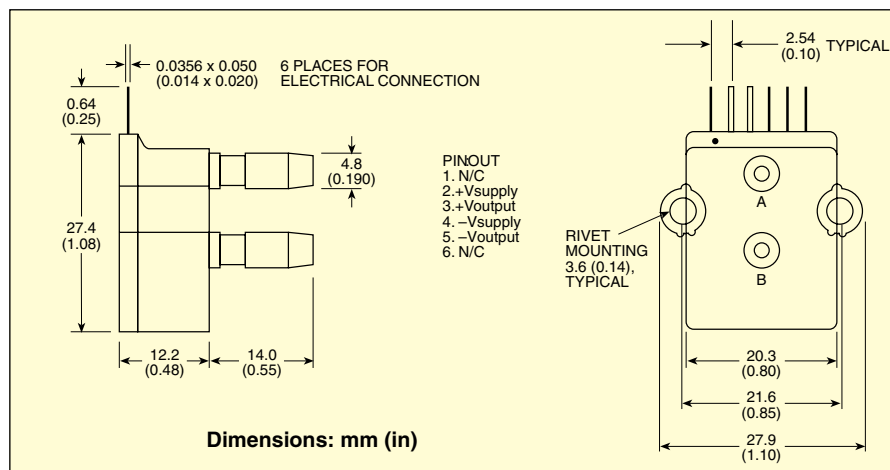
Burst Pressure: $>5\times$ FS pressure

Common-Mode Pressure: 50 psi

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



Actual size.



To Order Visit omega.com/px137 for Pricing and Details

GAGE/DIFFERENTIAL PRESSURE RANGES		MODEL NO.	FS OUTPUT (@ 12 V EXC.)	COMPATIBLE METERS
± 0.3 psi (8.3 in H ₂ O)	± 0.02 bar (2 kPa)	PX137-0.3DV	18 ± 2 mV	DP25B-S, DP41-S
± 1 psi	± 0.07 bar	PX137-001DV	8 ± 1 mV	DP25B-S, DP41-S
± 5 psi	± 0.34 bar	PX137-005DV	60 ± 2.5 mV	DP25B-S, DP41-S
± 15 psi	± 1.0 bar	PX137-015DV	90 ± 5 mV	DP25B-S, DP41-S
± 30 psi	± 2.1 bar	PX137-030DV	90 ± 5 mV	DP25B-S, DP41-S
± 100 psi	± 6.9 bar	PX137-100DV	100 ± 5 mV	DP25B-S, DP41-S
ABSOLUTE PRESSURE RANGES				
15 psia	1.0 bar	PX137-015AV	90 ± 5 mV	DP25B-S, DP41-S

Comes complete with operator's manual.

Ordering Example: PX137-015AV, millivolt output silicone pressure sensor with 0 to 15 psi absolute pressure range.



MILLIVOLT OUTPUT
PRESSURE TRANSDUCERS

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