

LOW-COST AMPLIFIED OUTPUT TRANSDUCER FOR 5 Vdc POWER

PX139 Series

±0.3 to ±30 psi
±0.02 to ±2 bar

All Ranges
\$90

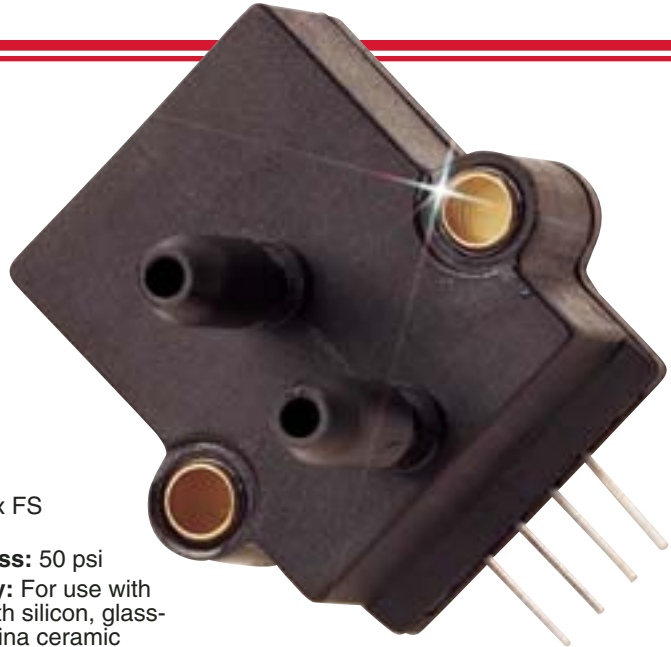


- ✓ Available for Differential, Gage, or Absolute Measurement
- ✓ Calibrated 4 V Output Span
- ✓ Precise Temperature Compensation
- ✓ For Dry Gas
- ✓ 5 V Excitation

The PX139 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. Designed to operate from a 5 Vdc power source, the PX139 provides a calibrated 4 V output span of 0.25 to 4.25 V.

SPECIFICATIONS

Excitation Voltage: 5 Vdc @ 2 mA
Output: 0.25 to 4.25 Vdc
Span: 4 V ±0.1 V
Linearity and Hysteresis: ±0.1% FS typical, 0.5% max (0.5% typ. 1% max for ±0.3 psi range)
Repeatability: ±0.3% FS
Zero Balance: 2.25 ±0.1 Vdc diff.; 0.25 ±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



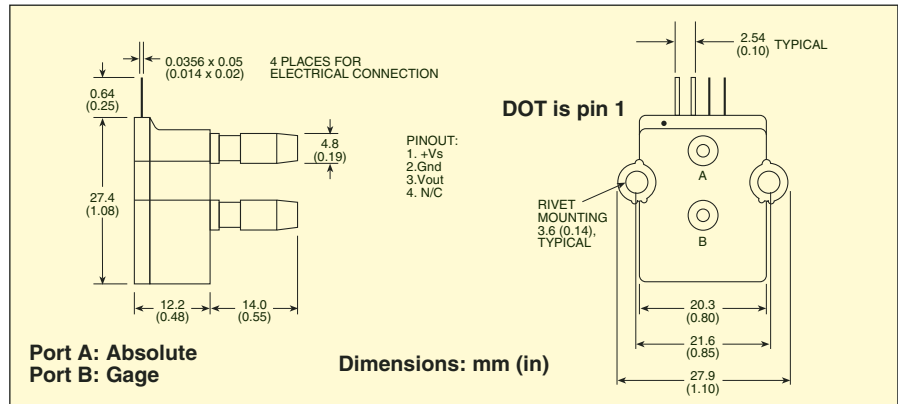
PX139-0.3DV, \$90, shown 2.5x larger than actual size.

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



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

| GAGE/DIFFERENTIAL PRESSURE | | MODEL NO. | PRICE | COMPATIBLE METERS* |
|----------------------------|--------------|--------------|-------|--------------------|
| ±0.3 psi | 0.02 bar | PX139-0.3D4V | \$90 | DP25B-E, DP41-E |
| ±1 psi | 0.069 bar | PX139-001D4V | 90 | DP25B-E, DP41-E |
| ±5 psi | 0.34 bar | PX139-005D4V | 90 | DP25B-E, DP41-E |
| ±15 psi | 1.0 bar | PX139-015D4V | 90 | DP25B-E, DP41-E |
| ±30 psi | 2.1 bar | PX139-030D4V | 90 | DP25B-E, DP41-E |
| ABSOLUTE PRESSURE RANGES | | | | |
| 0 to 15 psia | 0 to 1.0 bar | PX139-015A4V | \$90 | DP25B-E, DP41-E |
| 0 to 30 psia | 0 to 2.1 bar | PX139-030A4V | 90 | DP25B-E, DP41-E |

Comes with complete operator's manual.

* See section D for compatible meters.

Ordering Example: PX139-015A4V, amplified 0 to 15 psia output transducer, \$90.

ACCESSORY

| MODEL NO. | PRICE | DESCRIPTION |
|-----------|-------|--|
| AV-1017 | \$130 | Reference Book: Mechanics of Aircraft Structures |



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• 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

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• 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