

# LOW-COST AMPLIFIED OUTPUT TRANSDUCER FOR 5 Vdc POWER

## PX139 Series

±0.3 to ±30 psi  
±0.02 to ±2 bar

All Ranges  
**\$85**



- ✓ 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



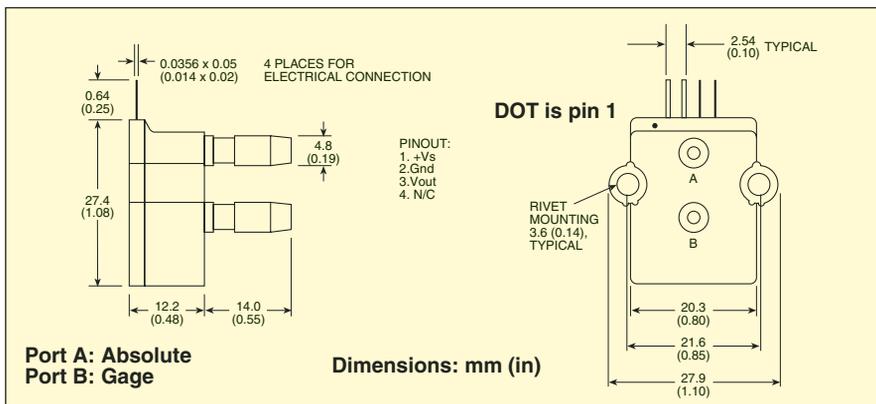
PX139-0.3DV, \$85, shown 2.5x larger than actual size.

**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	\$85	DP25B-E, DP41-E
±1 psi	0.069 bar	PX139-001D4V	85	DP25B-E, DP41-E
±5 psi	0.34 bar	PX139-005D4V	85	DP25B-E, DP41-E
±15 psi	1.0 bar	PX139-015D4V	85	DP25B-E, DP41-E
±30 psi	2.1 bar	PX139-030D4V	85	DP25B-E, DP41-E
ABSOLUTE PRESSURE RANGES				
0 to 15 psia	0 to 1.0 bar	PX139-015A4V	\$85	DP25B-E, DP41-E
0 to 30 psia	0 to 2.1 bar	PX139-030A4V	85	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, \$85.

### ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
AV-1017	\$99	Reference Book: Mechanics of Aircraft Structures



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

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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

### • 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