

# MINIATURE VOLTAGE OUTPUT PRESSURE SENSORS FULLY TEMPERATURE COMPENSATED

**PX40 Series**  
0.5 to 4 Vdc Output

All Ranges  
**\$60**



PX40-15G5V, \$60, shown much larger than actual size.



VOLTAGE OUTPUT  
PRESSURE TRANSDUCERS

**B**

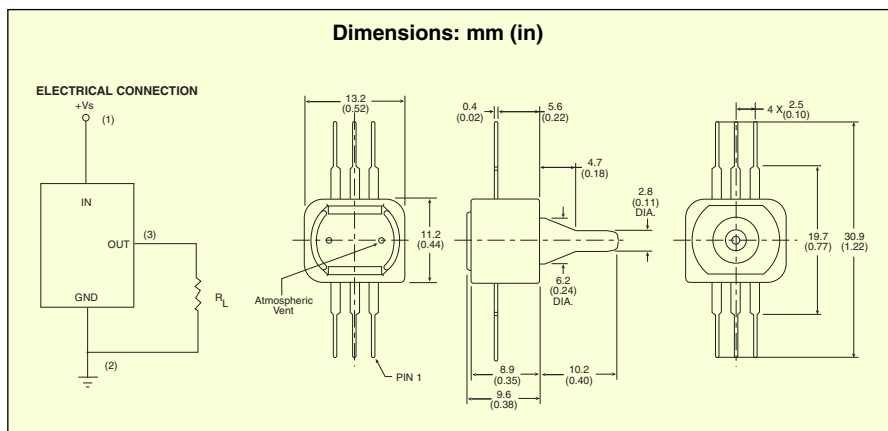
- ✓ Smallest Amplified Package
- ✓ Small Lightweight Package
- ✓ Fully Signal Conditioned
- ✓ Temperature Compensated
- ✓ Port Designed for O-Ring Interface
- ✓ Excellent Media Compatibility
- ✓ Wet or Dry Industrial Applications

## Typical Applications

- ✓ Laboratory Equipment
- ✓ Electronic Brake Systems
- ✓ Engine Oil Level
- ✓ Transmission Fluid Level
- ✓ Air Conditioning Systems
- ✓ Industrial Fluid Level

## SPECIFICATIONS

Excitation: 5 Vdc @10 mA  
 Output Source Current: 0.5 mA max  
 Output Sink Current: 1.0 mA max  
 Hysteresis and Repeatability: 0.15% FS  
 Span:      Output:      Linearity:  
 ±50 mmHg   4.00 Vdc typical   0.80%  
 0 to 15 psi   4.00 ±0.11 Vdc   0.20%  
 0 to 30 psi   4.00 ±0.08 Vdc   0.30%  
 0 to 100 psi   4.00 ±0.09 Vdc   0.10%  
 0 to 150 psi   4.00 ±0.07 Vdc   0.10%



**Null:**  
 ±50 mmHg 2.50 ±0.05 Vdc  
 0 to 15 psi 0.50 ±0.11 Vdc  
 0 to 30 psi 0.50 ±0.04 Vdc  
 0 to 100 psi 0.50 ±0.04 Vdc  
 0 to 150 psi 0.50 ±0.04 Vdc

**Operating Temp:**  
 -45 to 125°C (-49 to 257°F)

**Compensated Temp:**  
 -45 to 125°C (-49 to 257°F)

**Overpressure:**  
 ±50 mmHg ±170 mmHg  
 0 to 15 psi 45 psi  
 0 to 30 psi 60 psi  
 0 to 100 psi 200 psi  
 0 to 150 psi 300 psi

**Response Time:** 1 ms

**Gage Type:** Silicon

**Media Compatibility:** Limited to media that will not attack invar, copper, silicon, stainless steel, glass and solder (i.e., air, water, refrigerants, engine fuel)

**Vent:** Dry gases only

**Weight:** 5 g (0.18 oz)

Recommended Reference Book:  
 What Every Engineer Should Know  
 About Project Management,  
**GE-0511, \$70**  
 See Section Y  
 For Additional Books



**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

GAGE MODELS (One Port)				
RANGE		MODEL NO.	PRICE	COMPATIBLE METERS*
±50 mmHg	6.7 kPa	PX40-50BHG5V	\$60	DP24-E, DP25B-E, DP41-E
0 to 15 psi	0 to 1 bar	PX40-15G5V	60	DP24-E, DP25B-E, DP41-E
0 to 30 psi	0 to 2.1 bar	PX40-030G5V	60	DP24-E, DP25B-E, DP41-E
0 to 100 psi	0 to 6.9 bar	PX40-100G5V	60	DP24-E, DP25B-E, DP41-E
0 to 150 psi	0 to 10.3 bar	PX40-150G5V	60	DP24-E, DP25B-E, DP41-E

\* See section D for compatible meters.

Ordering Example: PX40-15G5V, 0 to 15 psi transducer with 0.5 to 4.5 Vdc output, \$60.



#### 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!

### • 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