

AMPLIFIED VOLTAGE OUTPUT TRANSDUCER ABSOLUTE AND SEALED PRESSURE WITH WATERPROOF CASE FOR HARSH ENVIRONMENTS

PX176 Series

0-15 to 0-3000 psi

0-0.1 to 0-200 bar

Starts at
\$345



- ✓ ±1% Interchangeability
- ✓ Sealed for Harsh Environments
- ✓ 1 to 6 Vdc Output
- ✓ 9 to 20 Vdc Power
- ✓ -55 to 105°C (-67 to 221°F) Operating Range
- ✓ Fully Calibrated and Temperature Compensated

SPECIFICATIONS

Excitation: 9 to 20 Vdc at 15 mA

(polarity protection)

Output: 1 to 6 Vdc

Input Resistance: 2 MΩ at 25 Vdc

PERFORMANCE

Accuracy: ±1.0% full scale

Linearity: ±0.5% full scale

Hysteresis: ±0.25% full scale

Zero Balance: ±1% full scale

Span Tolerance: 5 ±0.1 Vdc

Operating Temperature Range:

-55 to 105°C (-67 to 221°F)

Compensated Temperature Range:

0 to 85°C (32 to 185°F)

Thermal Zero Effect: ±0.02% rdg/°C

(±0.01% rdg/°F)

Thermal Sensitivity Effect:

±0.02% rdg/°C (±0.01% rdg/°F)

Proof Pressure: 2x full scale;

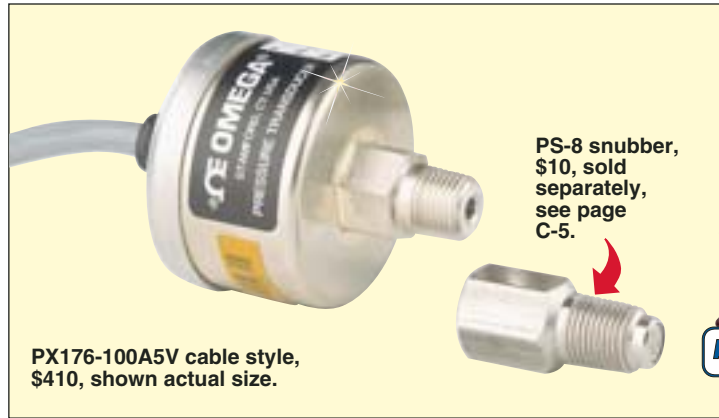
1.5x over 200 psi

Burst Pressure: 20x full scale;

10x: 50 to 200 psi; 5x: 500 psi and up

CONSTRUCTION

Gages: Piezoresistive on bending beam



Body/Diaphragm Material: 300 Series SS (silver, copper, nickel, cadmium brazed)

Pressure Port: 1/8-27 NPT

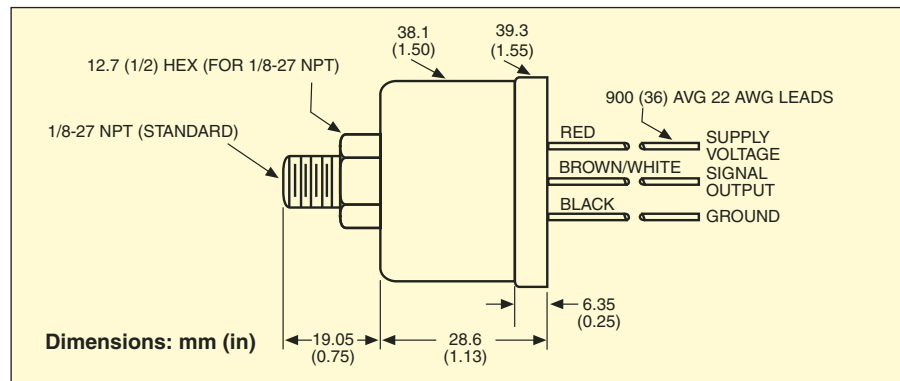
ELECTRICAL CONNECTION

Cable Style: 900 mm (36") 3-lead shielded PVC

Pressure Cavity Volume: 0.091 in³

Weight: 113 g (4 oz)

Frequency Response: 50 Hz



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

| RANGE | MODEL NO. | PRICE | COMPATIBLE METERS* | |
|----------------|---------------|---------------------|--------------------|---------------------------|
| 0 to 15 psia | 0 to 1.0 bar | PX176-015A5V | \$410 | DP302E, DP2000P4, DP25B-E |
| 0 to 25 psia | 0 to 1.7 bar | PX176-025A5V | 410 | DP302E, DP2000P4, DP25B-E |
| 0 to 50 psia | 0 to 3.4 bar | PX176-050A5V | 410 | DP302E, DP2000P4, DP25B-E |
| 0 to 100 psia | 0 to 6.9 bar | PX176-100A5V | 410 | DP302E, DP2000P4, DP25B-E |
| 0 to 200 psia | 0 to 13.8 bar | PX176-200A5V | 410 | DP302E, DP2000P5, DP25B-E |
| 0 to 100 psis | 0 to 6.9 bar | PX176-100S5V | 345 | DP302E, DP2000P4, DP25B-E |
| 0 to 200 psis | 0 to 13.8 bar | PX176-200S5V | 345 | DP302E, DP2000P5, DP25B-E |
| 0 to 500 psis | 0 to 34.5 bar | PX176-500S5V | 345 | DP302E, DP2000P4, DP25B-E |
| 0 to 1000 psis | 0 to 68.9 bar | PX176-1KS5V | 345 | DP302E, DP2000P4, DP25B-E |
| 0 to 3000 psis | 0 to 207 bar | PX176-3KS5V | 345 | DP25B-E, DP3002-E, DP41-E |

Comes with complete operator's manual.

* See section D for compatible meters.

Ordering Example: PX176-1KS5V, 1000 psis cable style transducer, \$345.

ACCESSORY

| MODEL NO. | PRICE | DESCRIPTION |
|-----------|-------|--|
| CM-4333 | \$135 | Reference Book: Plant-Wide Process Control |



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