

# SANITARY VOLTAGE OUTPUT PRESSURE TRANSDUCER

## PROVEN THIN-FILM TECHNOLOGY

### PX790 Series

Vacuum to 1000 psi (69 bar)  
1 to 5 Vdc Output

Starts at  
**\$420**



- ✓ All Stainless Steel Construction
- ✓ NEMA 4X (IP65) Enclosure
- ✓ Dairy, Food Processing, Pharmaceutical, Biotech Applications
- ✓ High Reliability

The PX790 Series transducers use proven thin-film technology and precision machining and electro-polishing to meet 3A standards.

### SPECIFICATIONS

**Excitation:** 10 to 36 Vdc unregulated reverse voltage protected with supply current <3 mA

**Output:** 1 to 5 Vdc unregulated

**Zero Balance:** ±1% FS

**Linearity:** ±0.4% BFSL

**Hysteresis:** +0.2%

**Repeatability:** ±0.07%

**Stability:** ±1% FS/year

**Durability:** 100M cycles

**Operating Temperature:**

-29 to 82°C (-20 to 180°F)

**Compensated Temperature:**

-1 to 54°C (30 to 130°F)

**Thermal Effects:**

**Span:** ±0.04% FS/°F

**Zero:** ±0.04% FS/°F

**Proof Pressure:** 200% range

**Burst Pressure:** 800% range

**Gage Type:** Stainless steel diaphragm, diffused silicon sensor

**Vibration:** <±0.1% FS effect for 20 g, 0 to 2000 Hz in any axis

**Shock:** Less than ±0.05% FS effect for 100 g, 20 ms shock in any axis

**Position Effect:** <0.1% FS

**Response Time:** 5 ms

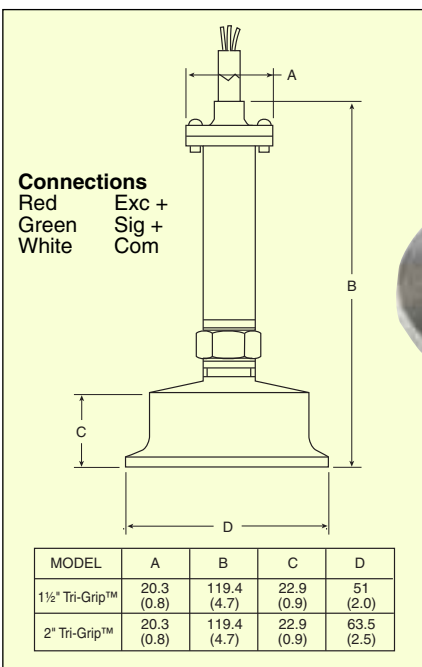
#### CAUTION AND WARNING!

Sensitive Diaphragm  
Do Not Touch!  
Remove Protective Cap  
Just Before Installation.

Exploded view showing PX792 transducer, Tri-Grip™ clamp and gasket T-fitting.



PX792-100G5V, with 2" Tri-Grip™ flange, \$420, shown actual size.



**Wetted Parts:** 316L stainless steel electro-polished

**Case:** 300 Series stainless steel

**Fill Fluid:** USP grade 99.5% glycerin

**Pressure Port:** Tri-Grip™, (Tri-Clamp® compatible) 1½", 2"

**Electrical Connection:** No. 24 AWG, 36" PVC, shielded, vented

**Weight:** 383 g (13.5 oz)

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

| RANGE      |            | MODEL NO.     | MODEL NO.     | PRICE | COMPATIBLE METERS* |
|------------|------------|---------------|---------------|-------|--------------------|
| psig       | bar        | 1½" FITTING   | 2" FITTING    |       |                    |
| Vac to 30  | Vac to 2.1 | PX791-V30G5V  | PX792-V30G5V  | \$455 | DP41-E, DP25B-E    |
| Vac to 60  | Vac to 4.1 | PX791-V60G5V  | PX792-V60G5V  | 455   | DP41-E, DP25B-E    |
| Vac to 100 | Vac to 6.9 | PX791-V100G5V | PX792-V100G5V | 455   | DP41-E, DP25B-E    |
| 0 to 30    | 0 to 2.1   | PX791-30G5V   | PX792-30G5V   | 435   | DP41-E, DP25B-E    |
| 0 to 60    | 0 to 4.1   | PX791-60G5V   | PX792-60G5V   | 420   | DP41-E, DP25B-E    |
| 0 to 100   | 0 to 6.9   | PX791-100G5V  | PX792-100G5V  | 420   | DP41-E, DP25B-E    |
| 0 to 200   | 0 to 13.8  | PX791-200G5V  | PX792-200G5V  | 420   | DP41-E, DP25B-E    |
| 0 to 300   | 0 to 20.7  | PX791-300G5V  | PX792-300G5V  | 420   | DP41-E, DP25B-E    |
| 0 to 500   | 0 to 34.5  | PX791-500G5V  | PX792-500G5V  | 420   | DP41-E, DP25B-E    |
| 0 to 750   | 0 to 51.7  | PX791-750G5V  | PX792-750G5V  | 420   | DP41-E, DP25B-E    |
| 0 to 1000  | 0 to 68.9  | PX791-1KG5V   | PX792-1KG5V   | 420   | DP41-E, DP25B-E    |

Comes complete with operator's manual.

\* See section D for compatible meters.

**Ordering Example:** PX792-V100G5V, 2" Tri-Grip™ fitting, range from vacuum to 100 psig and 1 to 5 Vdc output at full scale level, \$455.



VOLTAGE OUTPUT PRESSURE TRANSDUCERS

**B**



#### 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