

FLUSH DIAPHRAGM LOW-PRESSURE TRANSDUCER

1 NPT STANDARD OR G1 METRIC MODELS

PX42/PMX42 Series

mV/V Output
0-3 to 0-30 psi-Standard Models
0-400 mbar to 0-1.6 bar-Metric Models

1 bar = 14.5 psi
 1 kg/cm² = 14.22 psi
 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

All Ranges
\$380

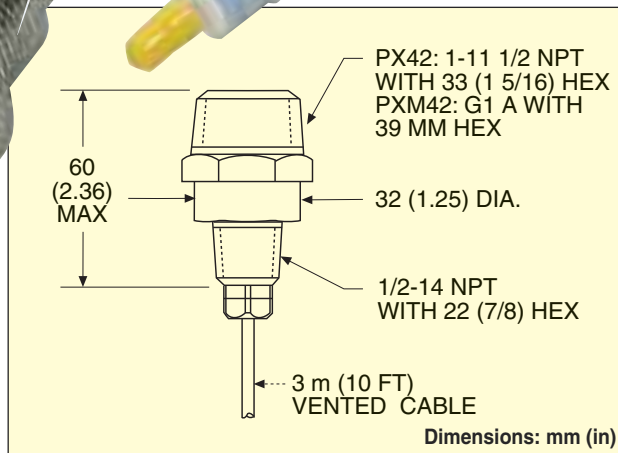


Standard

STANDARD
 PX42G7-008GV,
 \$380, shown
 actual size.



All models with vented cable ("G7") are supplied with a desiccant.



- ✓ All Stainless Steel Construction
- ✓ Rugged Thin-Film Design
- ✓ Large Flush Diaphragm for Plug-Free Measurement of Difficult Fluids
- ✓ 3 m (10') Vented Cable with Conduit Connection on Body for Installation in Harsh Environments

OMEGA's PX42/PMX42 are high-accuracy, millivolt output, industrial pressure transducers with a specially designed flush diaphragm for use

with industrial fluids and slurries that are difficult to measure because of sticking or plugging of orifices, their hermetically sealed, all stainless steel construction makes them suitable for the harshest industrial environments.

SPECIFICATIONS

Excitation: 10 Vac/dc (15V max)
Output: 1.5 mV/V
Input Resistance: 300 Ω min
Output Resistance: 300 Ω min
Zero Balance: ±2.0% FSO (±5% for 15 psi)
Accuracy: 0.25% linearity, hysteresis and repeatability combined

Operating Temp Range:
 -54 to 121°C (-65 to 250°F)

Compensated Temp Range:
 16 to 71°C (60 to 160°F)

Thermal Effects:
Span: 0.005% of rdg/°F
Zero: 0.005% of FSO/°F

Proof Pressure:
 ≤8 psi: 300% of rated pressure
 >8 psi: 200% of rated pressure

Burst Pressure:
 500% of rated pressure

Wetted Parts: 316L SS with Inconel® diaphragm

Pressure Port:
 see dimensional drawing

Electrical Connection: 3 m (10') 4-conductor shielded vented cable

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
RANGE		MODEL NO.	PRICE	COMPATIBLE METERS*
1 NPT STANDARD UNITS				
0 to 3 psig	0 to 0.21 bar	PX42G7-003GV	\$380	DP41-S, DP25B-S, DPIS
0 to 5 psig	0 to 0.34 bar	PX42G7-005GV	380	DP41-S, DP25B-S, DPIS
0 to 8 psig	0 to 0.55 bar	PX42G7-008GV	380	DP41-S, DP25B-S, DPIS
0 to 10 psig	0 to 0.69 bar	PX42G7-010GV	380	DP41-S, DP25B-S, DPIS
0 to 15 psig	0 to 1.0 bar	PX42G7-015GV	380	DP41-S, DP25B-S, DPIS
0 to 30 psig	0 to 2.1 bar	PX42G7-030GV	380	DP41-S, DP25B-S, DPIS
G1 METRIC UNITS				
0 to 400 mbar	0 to 5.8 psig	PXM42MG7-400MBARGV	\$380	DP41-S, DP25B-S, DPIS
0 to 1.0 bar	0 to 14.5 psig	PXM42MG7-001BARGV	380	DP41-S, DP25B-S, DPIS
0 to 1.6 bar	0 to 23 psig	PXM42MG7-1.60BARGV	380	DP41-S, DP25B-S, DPIS

Comes complete with 5-point NIST-traceable calibration.

Ordering Examples: PX42G7-003GV, 1 NPT unit with 3 psig range, \$380.
 PXM42MG7-001BARGV, G1 metric unit with 1 bar range, \$380.

* See section D for compatible meters.



UNITED STATES

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

CANADA

www.omega.ca
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GERMANY

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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