

FLUSH DIAPHRAGM LOW-PRESSURE TRANSDUCER

1 NPT STANDARD OR G1 METRIC MODELS

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

PX42/PXM42 Series

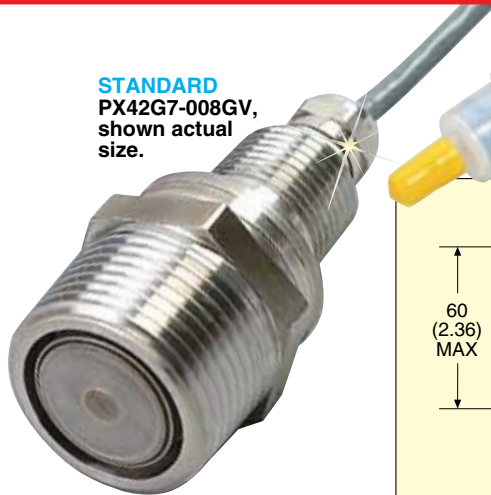
All Ranges



Standard

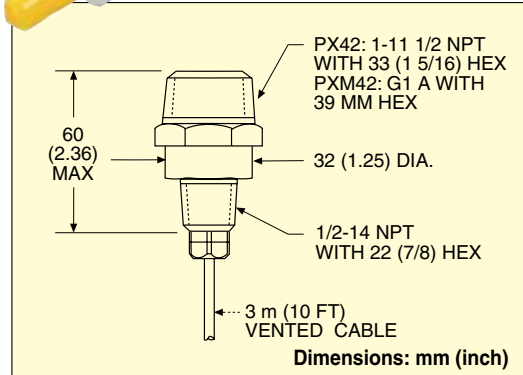
- ✓ All Stainless Steel Construction
- ✓ Rugged Thin-Film Design
- ✓ Large Flush Diaphragm for Plug-Free Measurement of Difficult Fluids
- ✓ 3 m (10') Vented Cable with Conduit Connection on Body for Installation in Harsh Environments

OMEGA's PX42/PXM42 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.



STANDARD
PX42G7-008GV,
shown actual
size.

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



SPECIFICATIONS

Excitation Voltage: 10 Vac/dc (15V max)
Full Scale Output (F.S.O.): Capacity / Nominal F.S.O. / min @ 10V

3 psi / 0.8 mV/V / 5.2 mV
5 psi / 1.0 mV/V / 8.6 mV
400 mbar / 1.0 mV/V / 10.0 mV
8 psi / 1.5 mV/V / 13.8 mV
10 psi / 2.0 mV/V / 17.3 mV
1 bar / 3.0 mV/V / 26 mV
15 psi / 3.0 mV/V / 26 mV
1.6 psi / 3.0 mV/V / 26 mV
30 psi / 3.0 mV/V / 26 mV

Input Resistance: 2500 Ω nom
Output Resistance: 2500 Ω nom
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

To Order

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

Comes complete with 5-point NIST-traceable calibration.

Ordering Examples: PX42G7-003GV, 1 NPT unit with 3 psig range.
PXM42G7-001BARGV, G1 metric unit with 1 bar range.

* Visit us online for compatible meters.