

1 NPT FLUSH DIAPHRAGM LOW-PRESSURE TRANSDUCER

PX42 Series mV/V Output 0-3 to 0-30 psi 0-200 mbar to 0-2 bar

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



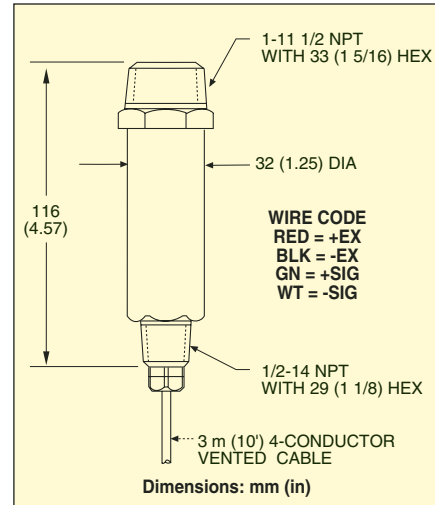
- ✓ All Stainless Steel Construction
- ✓ Optional Hastelloy C Construction
- ✓ Rugged Thin-Film Design
- ✓ Large Flush Diaphragm for Plug-Free Measurement of Difficult Fluids
- ✓ 3 m (10') Vented Cable with Conduit Connection on Body for Installation in Harsh Environments
- ✓ Heavy-Duty 1 NPT Fitting

OMEGA's PX42 is a high-accuracy, millivolt output, industrial pressure transducer 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. Its hermetically sealed, all stainless steel construction makes it suitable for the harshest industrial environments. Three meters (10') of vented 4-conductor shielded cable is standard with a 1/2 NPT fitting on the body for conduit installation. Pressure ranges from 0 to 3 up to 30 psi are available to cover most processing and industrial applications.



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

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



SPECIFICATIONS

ELECTRICAL

Excitation: 10 Vac/dc (15 V 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)

PERFORMANCE

Accuracy: 0.25% linearity, hysteresis and repeatability combined

ENVIRONMENTAL

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

PRESSURE

Proof Pressure:

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

Burst Pressure:

500% of rated pressure

MECHANICAL

Wetted Parts: 316L SS with Inconel® diaphragm

Optional: Hastelloy C-276

Pressure Port: 1-11 1/2 NPT male

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*	
0 to 3 psi	0 to 0.21 bar	PX42G7-003GV	\$380	DP41-S, DP25B-S
0 to 8 psig	0 to 0.55 bar	PX42G7-008GV	\$380	DP41-S, DP25B-S
0 to 10 psig	0 to 0.69 bar	PX42G7-010GV	380	DP41-S, DP25B-S
0 to 15 psig	0 to 1.0 bar	PX42G7-015GV	380	DP41-S, DP25B-S
0 to 30 psig	0 to 2.1 bar	PX42G7-030GV	380	DP41-S, DP25B-S

Comes with 5-point calibration.

* See section D for compatible meters.

Metric ranges available – see Metric Section.

Ordering Example: PX42G7-003GV, 3 psi gage model with stainless steel wetted parts, \$380.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
CE-1920	\$190	Reference Book: Thin Plates and Shells

