

# 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/cm<sup>2</sup> = 14.22 psi  
1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

## PX42/PXM42 Series

### All Ranges



Standard

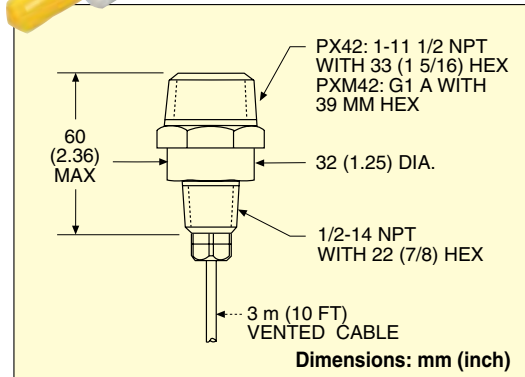
- ✓ All Stainless Steel Construction
- ✓ Rugged Thin-Film Design
- ✓ Large Flush Diaphragm for Plug-Free Measurement of Difficult Fluids
- ✓ 3 m (10') Vented Cable with Conduit Connection on Body for Installation in Harsh Environments

TRODEKS'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*
<b>1 NPT STANDARD UNITS</b>			
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
<b>G1 METRIC UNITS</b>			
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.