

GENERAL PURPOSE INDUSTRIAL PRESSURE TRANSDUCER

7/16-20 UNF THREAD

mV/V Output
0-15 to 0-30,000 psi
0-1 to 0-2000 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

PX35 Series

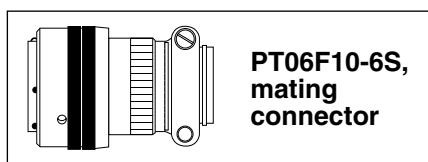


- ✓ All Stainless Steel Construction
- ✓ High Operating Temperature 163°C (325°F)
- ✓ Hermetically Sealed for Harsh Environments
- ✓ Available in Vented Gage, Sealed Gage, or Absolute Pressure Models

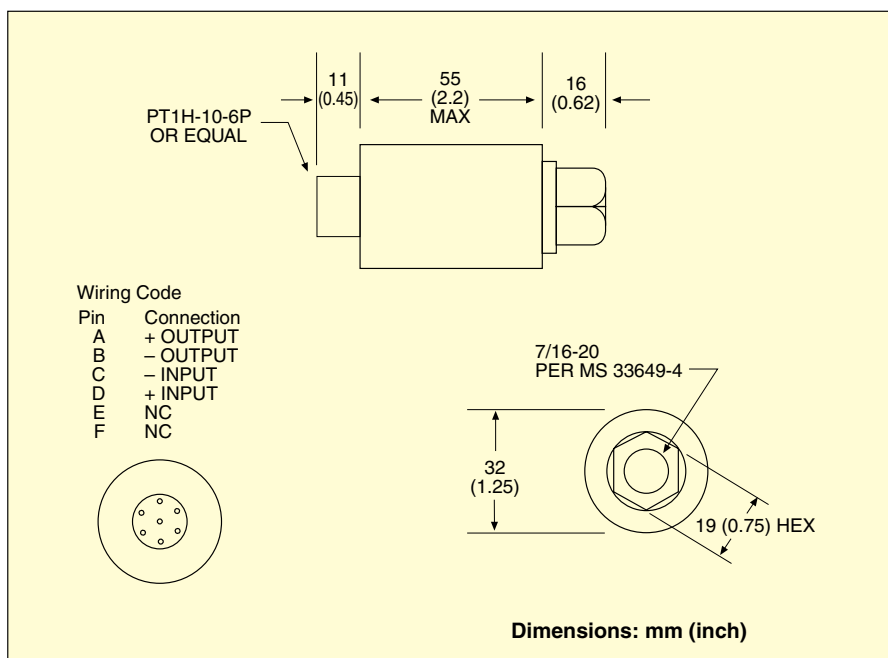
OMEGA's PX35 transducer series is a rugged, general purpose 30 mV output, industrial pressure transducer. It has a hermetically sealed, all stainless steel case which makes it suitable for the harsh conditions found in industry. The PX35 is available in gage, absolute or sealed gage models. A twist-lock 6 pin connector is standard, or a 3 m (10') cable is also available.

SPECIFICATIONS

Excitation: 10 Vdc (15 V max)
Output: 3 mV/V nominal
Accuracy: 0.25% linearity, hysteresis and repeatability



PX35K1-1KGV, shown actual size.



Input Resistance: 360 Ω min
Output Resistance: 350 ±5 Ω
Zero Balance: ±2.0% FSO
Operating Temp Range: -73 to 163°C (-100 to 325°F)
Compensated Temp Range: 16 to 71°C (60 to 160°F)
Thermal Effects:
 Span: 0.003% rdg/°F
 Zero: 0.004% FS/°F
Proof Pressure: 150% of rated pressure

Burst Pressure: 300% of rated pressure
Wetted Parts: 17-4 PH stainless steel
Pressure Port:
 <10,000 psi: 7/16-20 UNF-2A internal
 ≥10,000 psi: 1/8-18, 1/4" HP tube
Electrical Connection: PT1H-10-6P or equal
Optional: 3 m (10') cable
Mating Connector: PT06F10-6S (not included)



MILLIVOLT OUTPUT
 PRESSURE TRANSDUCERS

B

CUSTOM CONFIGURATIONS

SERIES PX35	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (PSI) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
C = ¼-18 NPT-M	cost		10	A, G, S	V = mV/V Base price PX35D ≤1000 psi >1000 psi	OX = Cleaned for oxygen service + cost plus 2 weeks
D = ¼-18 NPT-F	no charge		15	A, G, S		
J = 7/16-20 UNF-M	cost		20	A, G, S		
K = 7/16-20 UNF-F	no charge		25	A, G, S		
S = ¼ HP tube fitting (required for ranges ≥ 10,000 psi)			30	A, G, S		
			50	A, G, S		
			75	A, G, S		
			100	A, G, S		
			150	A, G, S		
			200	A, G, S		
			250	A, G, S		
			300	A, G, S		
			500	A, G, S		
			750	A, G, S		
	0 = 3 m (10') cable (std) add cost per (ft) over 3 m (10')		1K	A, G, S		
	1 = PT1H-10-6P connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S		1K	A, G, S		
			2K	A, G, S		
			2.5K	A, G, S		
			3K	A, G, S		
			3.5K	A, G, S		
			5K	A, G, S		
			7.5K	A, G, S		
			10K*	A, G, S		
			15K*	A, G, S		
			20K*	A, G, S		
			30K*	A, G, S		
* 7/16-18, ¼" HP tube connection						
Metric ranges available, – Visit us online.						

To order a custom configuration:

1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units
5. Select output
6. Select options and agency approvals

7/16-20 Pressure Connection and Twist-Lock 6 Pin Connector

To Order		
RANGE (psi)	MODEL NO.	COMPATIBLE METERS
ABSOLUTE—ALL RANGES AVAILABLE IN ABSOLUTE PRESSURE		
0 to 30	PX35K1-030AV	DP41-S, DP25-S
0 to 50	PX35K1-050AV	DP41-S, DP25-S
GAGE—ALL RANGES AVAILABLE IN SEALED GAGE PRESSURE		
0 to 20	PX35K1-020GV	DP41-S, DP25-S
0 to 30	PX35K1-030GV	DP41-S, DP25-S
0 to 50	PX35K1-050GV	DP41-S, DP25-S
0 to 100	PX35K1-100GV	DP41-S, DP25-S
0 to 200	PX35K1-200GV	DP41-S, DP25-S
0 to 300	PX35K1-300GV	DP41-S, DP25-S
0 to 500	PX35K1-500GV	DP41-S, DP25-S
0 to 1,000	PX35K1-1KGV	DP41-S, DP25-S
0 to 2,000	PX35K1-2KGV	DP41-S, DP25-S
0 to 3,000	PX35K1-3KGV	DP41-S, DP25-S
0 to 5,000	PX35K1-5KGV	DP41-S, DP25-S
0 to 10,000*	PX35S1-10KGV	DP41-S, DP25-S
0 to 15,000*	PX35S1-15KGV	DP41-S, DP25-S**
0 to 20,000*	PX35S1-20KGV	DP41-S, DP25-S**
0 to 30,000*	PX35S1-30KGV	DP41-S, DP25-S**

Comes complete with 5-point NIST traceable calibration.

* 7/16-18, ¼" HP tube connection.

** 4-digit meter, counts in increments of 10.

Metric ranges available, consult Engineering.

To order absolute pressure, replace "G" in model number with "A", no extra charge.

To order sealed gage, replace "G" in model number with "S", no extra charge.

Ordering Examples: PX35K1-300GV, 300 psi gage pressure transducer with 7/16-20 female connection and twist-lock 6 pin connector.

PX35S1-15KGV, 15,000 psi gage pressure transducer with 7/16-18, ¼" HP tube connection and twist-lock 6 pin connector.

PT06F10-6S, mating connector (sold separately).