

# PREMIUM TEMPERATURE COMPENSATION PRESSURE TRANSDUCER

## STANDARD AND METRIC MODELS

### mV/V Output

0-15 to 0-30,000 psi-Standard Units

0-1 to 0-400 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

**STANDARD**  
PX35D0-1KGV shown  
actual size.

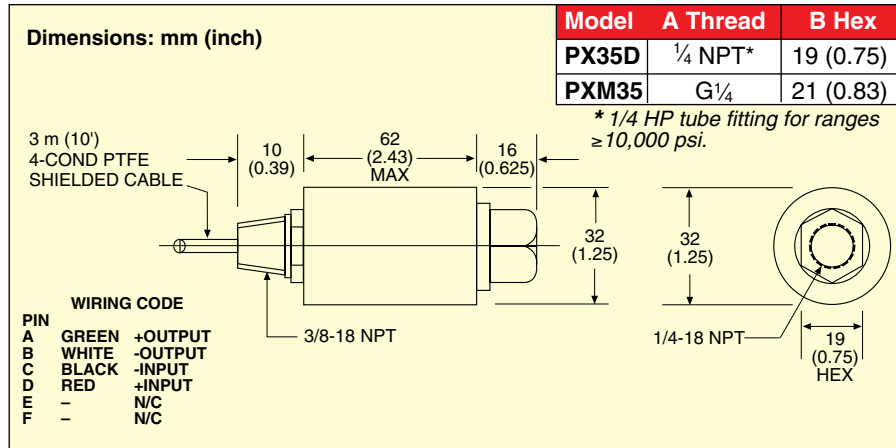


### PX35/PXM35 Series



Standard

- ✓ All Stainless Steel Construction
- ✓ 5-Point Calibration Standard
- ✓ Available in Gage, Sealed Gage, and Absolute Pressure Models



The OMEGA PX35/PXM35 are high-accuracy, millivolt output, industrial pressure transducers. They can be ordered with a hermetically sealed gage, making them suitable for the harshest environments. Both units are available in gage, sealed gage, and absolute models. Three meters (10') of 4-conductor shielded cable is standard. A twist-lock 6 pin connector electrical termination is also available.

### SPECIFICATIONS

**Excitation:** 10 Vdc (15 V maximum)

**Output:** 3 mV/V nominal

**Accuracy:** 0.25% linearity, hysteresis and repeatability combined

**Zero Balance:**  $\pm 2.0\%$  FSO

**Input Resistance:** 350  $\Omega$  minimum

**Output Resistance:** 315 to 530  $\Omega$

**Operating Temp Range:** -73 to 149°C (-100 to 300°F)

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

### Thermal Effects:

**Span:** 0.0054% rdg/°C

**Zero:** 0.008% FSO/°C

### Proof Pressure:

150% of rated pressure

### Burst Pressure:

300% of rated pressure

**Wetted Parts:** 17-4 PH stainless steel

**Pressure Port:** See dimensional drawing above

### Electrical Connection:

3 m (10') 4-conductor cable standard, or PTIH-10-6P

# TEMPERATURE COMPENSATION PRESSURE TRANSDUCER



MILLIVOLT OUTPUT  
PRESSURE TRANSDUCERS

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## STANDARD CUSTOM CONFIGURATIONS

PX35 SERIES	PRESSURE PORT [ 1 ]	ELECTRICAL CONNECTION [ 2 ]	RANGE (PSI) [ 3 ]	UNITS [ 4 ]	OUTPUT [ 5 ]	OPTIONS [ 6 ]
<b>C</b> = 1/4-18 NPT-M	<b>cost</b> no charge <b>cost</b> no charge as shown (ranges ≥ 10,000 psi)		10	A, G, S	<b>V</b> = mV/V Base price PX35D ≤1000 psi >1000 psi	<b>OX</b> = Cleaned for oxygen service + <b>cost</b> plus 2 weeks
<b>D</b> = 1/4-18 NPT-F			15	A, G, S		
<b>J</b> = 7/16-20 UNF-M			20	A, G, S		
<b>K</b> = 7/16-20 UNF-F			25	A, G, S		
<b>S</b> = 1/4 HP tube fitting			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		
			1K	A, G, S		
	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				

0 = 3 m (10') cable (std)  
**add cost per (ft)**  
over 3 m (10')

1 = PT1H-10-6P connector (or equal, no charge).  
Mating connector (sold separately), order **PT06F10-6S**

\* 7/16-18, 1/4" HP tube connection

**To order a custom configuration:**

1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units – absolute gage or sealed gage
5. Select output
6. Select options

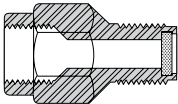
Visit us online for additional options including extended compensated temperatures.

**Ordering Examples:** *PX35K1-300GV*, 300 psi gage pressure transducer with 7/16-20 UNF female connection and PT1H-10-6P connector, **PT06F10-6S**, mating connector (sold separately).

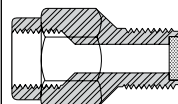
*PX35S1-15KGV*, 15,000 psi gage pressure transducer with 7/16-18, 1/4" HP tube connection and PT1H-10-6P connector.

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

*CA-4TE24-2-015*, cable assembly with twist-lock 6 pin connector (sold separately).



**G 1/4 Pressure Snubbers:**  
**PS-4G-MG** = Gas  
**PS-4E-MG** = Lt Oil  
**PS-4D-MG** = Dense Liquid



**1/4 NPT Pressure Snubbers:**  
**PS-4G** = Gas  
**PS-4E** = Lt Oil  
**PS-4D** = Dense Lq

## METRIC CUSTOM CONFIGURATIONS

PXM35 SERIES	PRESSURE PORT [ 1 ]	ELECTRICAL CONNECTION [ 2 ]	RANGE (BAR) [ 3 ]	UNITS [ 4 ]	OUTPUT [ 5 ]	OPTIONS [ 6 ]
<b>MB</b> = G 1/8 B Female	no charge no charge 0 = 3 m (10') cable (std) <b>add cost per/m</b> over 3 m (10') 1 = PT1H-10-6P connector (or equal, no charge). Mating connector (sold separately), order <b>PT06F10-6S</b>		1.0	A, G, S	<b>V</b> = mV/V Base price PXM35 <100 bar ≥100 bar	<b>OX</b> = Cleaned for oxygen service + <b>cost</b> plus 2 weeks
<b>MD</b> = G 1/8 B Female			1.6	A, G, S		
			2.5	A, G, S		
			4.0	A, G, S		
			6.0	A, G, S		
			10	A, G, S		
			16	A, G, S		
			25	A, G, S		
			40	A, G, S		
			60	A, G, S		
			100	A, G, S		
			160	A, G, S		
			250	A, G, S		
			400	A, G, S		

Visit us online for additional options including extended compensated temperatures.

**To order a custom configuration:**

1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units – absolute, gage or sealed gage
5. Select output
6. Select options

**Ordering Examples:** *PXM35MB0-010BARSV*, 10 bar sealed gage pressure transducer with G 1/8 B female connection and 3 m (10') cable termination.

*PXM35MD1-010BARAV*, 10 bar absolute pressure transducer with G 1/4 B female connection and twist-lock 6 pin connector. **PT06F10-6S**, mating connector (sold separately).

# PREMIUM TEMPERATURE COMPENSATED PRESSURE TRANSDUCER

**STANDARD**  
PX35D0-1KGV shown  
actual size.



## STANDARD MODELS

To Order			
RANGE		MODEL NO.	COMPATIBLE METERS*
<b>ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)</b>			
0 to 30 psia	0 to 2.1 bar	PX35D0-030AV	DP41-S, DP25B-S
0 to 50 psia	0 to 3.4 bar	PX35D0-050AV	DP41-S, DP25B-S
0 to 100 psia	0 to 6.9 bar	PX35D0-100AV	DP41-S, DP25B-S
0 to 150 psia	0 to 10.3 bar	PX35D0-150AV	DP41-S, DP25B-S
<b>GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)</b>			
0 to 20 psi	0 to 1.4 bar	PX35D0-020GV	DP41-S, DP25B-S
0 to 30 psi	0 to 2.1 bar	PX35D0-030GV	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	PX35D0-050GV	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX35D0-100GV	DP41-S, DP25B-S
0 to 200 psi	0 to 13.8 bar	PX35D0-200GV	DP41-S, DP25B-S
0 to 300 psi	0 to 20.7 bar	PX35D0-300GV	DP41-S, DP25B-S
0 to 500 psi	0 to 34.5 bar	PX35D0-500GV	DP41-S, DP25B-S
0 to 1000 psi	0 to 68.9 bar	PX35D0-1KGV	DP41-S, DP25B-S
0 to 2000 psi	0 to 138 bar	PX35D0-2KGV	DP41-S, DP25B-S
0 to 3000 psi	0 to 207 bar	PX35D0-3KGV	DP41-S, DP25B-S
0 to 5000 psi	0 to 345 bar	PX35D0-5KGV	DP41-S, DP25B-S
0 to 10,000** psi	0 to 689 bar	PX35S0-10KGV	DP41-S, DP25B-S
0 to 15,000** psi	0 to 1034 bar	PX35S0-15KGV	DP41-S, DP25B-S***
0 to 20,000** psi	0 to 1379 bar	PX35S0-20KGV	DP41-S, DP25B-S***
0 to 30,000** psi	0 to 2069 bar	PX35S0-30KGV	DP41-S, DP25B-S*

Comes complete with 5-point calibration.

\* Visit us online for compatible meters. \*\* 9/16-18, 1/4" HP tube fitting.

\*\*\* 4-digit meter; counts in increments of 10.

To order sealed gage pressure models, replace "G" in model number with "S" (no extra charge). To order absolute pressure models, replace "G" in model number with "A" (no extra charge).

**Ordering Example:** PX35D0-3KSV, 3000 psi sealed gage pressure transducer.

## METRIC MODELS

To Order			
Models with G 1/4 Female Pressure Connection, Integral Connector & mV/V Output			
RANGE		MODEL NO.	COMPATIBLE METERS*
0 to 1 bar	0 to 15 psi	PXM35MD1-001BARGV	DP41-S, DP25B-S
0 to 1.60 bar	0 to 23 psi	PXM35MD1-1.60BARGV	DP41-S, DP25B-S
0 to 2.50 bar	0 to 36 psi	PXM35MD1-2.50BARGV	DP41-S, DP25B-S
0 to 4 bar	0 to 58 psi	PXM35MD1-004BARGV	DP41-S, DP25B-S
0 to 6 bar	0 to 87 psi	PXM35MD1-006BARGV	DP41-S, DP25B-S
0 to 10 bar	0 to 145 psi	PXM35MD1-010BARGV	DP41-S, DP25B-S
0 to 16 bar	0 to 232 psi	PXM35MD1-016BARGV	DP41-S, DP25B-S
0 to 25 bar	0 to 363 psi	PXM35MD1-025BARGV	DP41-S, DP25B-S
0 to 40 bar	0 to 580 psi	PXM35MD1-040BARGV	DP41-S, DP25B-S
0 to 60 bar	0 to 870 psi	PXM35MD1-060BARGV	DP41-S, DP25B-S
0 to 100 bar	0 to 1450 psi	PXM35MD1-100BARGV	DP41-S, DP25B-S
0 to 160 bar	0 to 2321 psi	PXM35MD1-160BARGV	DP41-S, DP25B-S
0 to 250 bar	0 to 3626 psi	PXM35MD1-250BARGV	DP41-S, DP25B-S
0 to 400 bar	0 to 5802 psi	PXM35MD1-400BARGV	DP41-S, DP25B-S

Comes complete with 5-point calibration. \* Visit us online for compatible meters.

To order sealed gage pressure models, replace "G" in model number with "S" (no extra charge). To order absolute pressure models replace "G" in model number with "A" (no extra charge).

**Ordering Examples:** PXM35MD1-010BARSV, 10 bar sealed gage pressure transducer. PXM35MD1-001BARAV, 1 bar absolute (relative) pressure transducer.

**METRIC**  
PXM35D0-200AV  
shown actual size.

