

**SPEC SHEET**

**PX02-mV**

Interchangeable with  
Model TH-2

**\$475**  
Model Shown

**PX02 Series  
mV/V Output**

0-10 to 30,000 psi  
0-700 mbar to 0-2,000 bar  
1 bar = 14.5 psi  
1 kg/cm<sup>2</sup> = 14.22 psi  
1 Atmosphere = 14.7 psi = 29.93 in-Hg = 760.2 mm-Hg = 1.014 bar

- ✓ FM/CSA Approved  
Intrinsically Safe - Standard
- ✓ FM Approved for Hazardous  
Environments - Optional
- ✓ High Operating Temperature  
163°C (325°F)
- ✓ All Stainless Steel  
Construction
- ✓ Shunt Calibration for Easy  
System Checks
- ✓ Hermetically Sealed Double  
Diaphragm Design for  
Harsh Environments

OMEGADYNE'S PX02 Series are high accuracy, 30 millivolt output, industrial pressure transducers. Their hermetically sealed, all stainless steel construction makes them suitable for very harsh environments. FM/CSA Intrinsically Safe rating is standard and FM explosion proof ratings is available. Their high operating temperature, broad compensated range and excellent temperature compensation allow stable readings in applications with fluctuating temperatures. The PX02 is available in Gage, Absolute or Sealed Gage pressure as well as metric ranges.

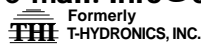
**For Sales and Service  
In U.S.A. and Canada**

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Model PX02K1-100GV \$475  
Shown Smaller than Actual Size

**HIGH  
ACCURACY  
MILLIVOLT  
OUTPUT  
PRESSURE  
TRANSDUCER  
1/2-20 PRESSURE  
CONNECTION**

► Most Popular Models Highlighted ◀

Prices Shown in U.S. Dollars

<b>To Order: (Specify Model Number)</b>			
<b>Models with 1/2-20 Pressure Connection and Bendix Style Connector</b>			
Range (psi)	Model Number	Price	Compatible Meters
<b>Absolute Pressure (All Ranges Available in Absolute Pressure)</b>			
0-10	PX02K1-010AV	\$550	INFS, INFCS
0-15	PX02K1-015AV	550	INFS, INFCS
0-20	PX02K1-020AV	550	INFS, INFCS
0-25	PX02K1-025AV	550	INFS, INFCS
0-50	PX02K1-050AV	550	INFS, INFCS
<b>Gage Pressure (All Ranges Also Available in Sealed Gage Pressure)</b>			
0-10	PX02K1-010GV	540	INFS, INFCS
0-15	PX02K1-015GV	540	INFS, INFCS
0-50	PX02K1-050GV	540	INFS, INFCS
0-75	PX02K1-075GV	475	INFS, INFCS
0-100	PX02K1-100GV	475	INFS, INFCS
0-200	PX02K1-200GV	475	INFS, INFCS
0-300	PX02K1-300GV	475	INFS, INFCS
0-500	PX02K1-500GV	475	INFS, INFCS
0-1000	PX02K1-1KGV	475	INFS, INFCS
0-1500	PX02K1-1.5KGV	475	INFS, INFCS
0-2000	PX02K1-2KGV	475	INFS, INFCS
0-3500	PX02K1-3.5KGV	475	INFS, INFCS
0-5000	PX02K1-5KGV	475	INFS, INFCS
0-7500	PX02K1-7.5KGV	475	INFS, INFCS
0-10,000**	PX02S1-10KGV	575	INFS, INFCS*
0-20,000**	PX02S1-20KGV	575	INFS, INFCS*
0-30,000**	PX02S1-30KGV	575	INFS, INFCS*

\* 4-Digit Meter Counts by 10.

Interchangeable with Model TH-2

To order an FM approved Hazardous Location version add suffix Q-FMO to the part number, +\$150. To order Absolute Pressure replace OGO in model number with OAO.

To order Sealed Gage Pressure replace OGO in model number with OSO (no charge)

Ordering Examples: 1.) PX02K1-500SV-FM is a 500 psi Sealed Gage pressure model with mV/V output, a 1/2-20 female fitting, a PT1H-10-6P Connector and FM Hazardous Location rating, \$475+150 = \$625. To order Mating Connector (not included) specify PT06F-10-6S, \$26.50. 2.) PX02K1-100AV is a 100 psi Absolute Pressure model with mV/V output, a 1/2-20 female fitting, and a PT1H-10-6P Connector, \$475. To order Mating Connector (not included) specify PT06F-10-6S, \$26.50.

\*\* UHP Tube Fitting

Metric Ranges Available - Consult Engineering

Printed On Recycled Paper



**SPECIFICATIONS: mV/V Output**

**Electrical:**

**Excitation:** 10 V ac/dc (15V Max)

**Output:** 3 mV/V ±0.25%

**Input Resistance:** 360 Ohm Min.

**Output Resistance:** 350 ±5 Ohms

**Zero Balance:** ±1.0% of FSO

**Agency Approvals:**

Must be specified at time of order  
 FM Hazardous Locations S/I/1/ABCD  
 FM/CSA Intrinsically Safe  
 IS/I.II.III/1/CDEFG

**Shunt Calibration:** Value specified on Calibration sheet

**Performance:**

**Accuracy Class:** ±0.1%

**Linearity:** ±0.1% FSO

**Hysteresis:** ±0.05% FSO

**Repeatability:** ±0.05% FSO

**Sensing Element:** 4 active-arm bridge, using thick film strain gages in a hermetically sealed double diaphragm chamber

**Environmental:**

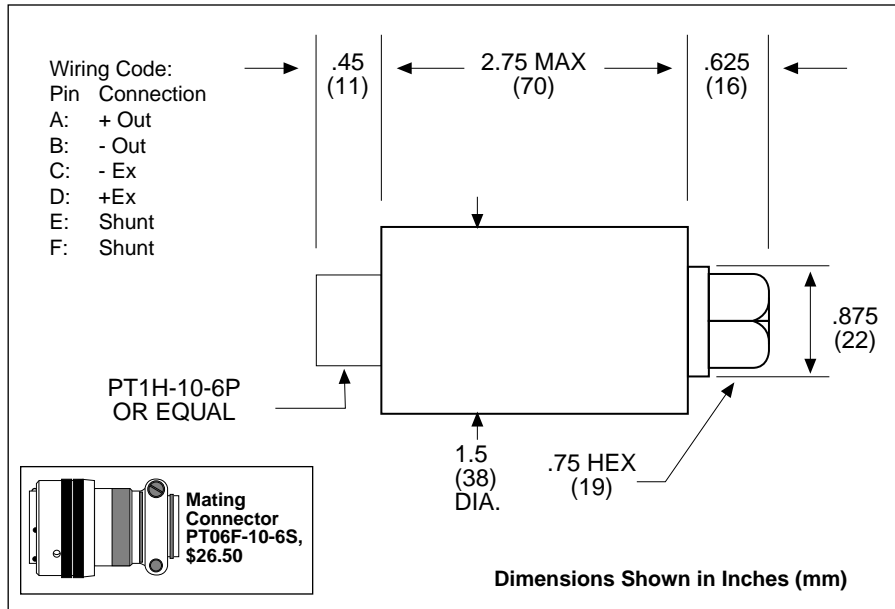
**Operating Temp Range:**

-73 to 163°C (-100 to 325°F)

**Compensated Temp Range:**

16 to 71°C (60 to 160°F)

**Thermal Effects:** Span: 0.003% of Rdg/jF Zero: 0.0025% of FSO/F



**Pressure:**

**Ranges (psi):** 2,5,10,15,20,25,50,75,100,150,200,250,300,500,750,1K,1.5K,2K,3K,3.5K,5K,7.5K,10K,20K,30K

**Proof Pressure:** 150% of rated pressure

**Burst Pressure:** 300% of rated pressure

**Mechanical:**

**Wetted Parts:** 17-4PH Stainless Steel

**Pressure Port:** Ranges <10000 psi

1/2-20 UNF-2A female  
 Ranges ≥ 10000 psi 1/4-18, 1/2 inch HP tube. Also available 1/2 UNPT male or female or 1/2-20 male

**Electrical Connection:** PT1H-10-6P or Equal. Optional 10 ft (3m) PVC Cable

**Mating Connector:** PT06F-10-6S (not included)

**CUSTOM CONFIGURATIONS**

SERIES PX02	PRESSURE PORT [ 1 ]	ELECTRICAL CONNECTION [ 2 ]	RANGE (PSI) [ 3 ]	UNITS [ 4 ]	OUTPUT [ 5 ]	OPTIONS [ 6 ]
	Models < 10,000 psi		002*	S,G,A	V = mV/V Output	FM = FM Hazardous Location +\$150
	C = 1/2-18 NPT-M +\$19		005*	S,G,A	Base Price	mV/V model only
	D = 1/2-18 NPT-F no charge		010	S,G,A	5T = 0 to 5Vdc Output	OL = Overload Stops +\$45
	J = 1/2-20 UNF-M +\$19		015	S,G,A	5Z = Isolated 0 to 5 Vdc Output +\$190 all ranges	OX = Cleaned for Oxygen use +\$75 & 2 weeks
	K = 1/2-20 UNF-F no charge		020	S,G,A	10T= 0 to 10 Vdc Output +\$155 all ranges	
	Models ≥ 10,000 psi		025	S,G,A	I = 4 to 20mA Output +\$175 all ranges	
	S = 1/2 UNP Tube Fitting no charge		050	S,G,A		
			075	S,G,A		
	0 = 10 ft (3m) cable (std) +\$2/ft over 10 ft		100	S,G,A		
	1 = PT1H-10-6P Connector or equal (no charge) Mating Connector (not included) order PT06F-10-6S \$26.50		150	S,G,A		
	5 = Lightning protected Amplifier Box (no charge) (4-20 mA models only)		200	S,G,A		
			250	S,G,A		
			300	S,G,A		
			500	S,G,A		
			750	S,G,A		
			1K	S,G,A		
			1.5K	S,G,A		
			2K	S,G,A		
			3K	S,G,A		
			3.5K	S,G,A		
			5K	S,G,A		
			7.5K	S,G,A		
			10K	S,G,A		
			20K	S,G,A		
			30K	S,G,A		

\* NOTE: 2 and 5 psi Ranges available only on amplified output models

**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

Interchangeable with Model TH-2

Metric Ranges Available - Consult Engineering

**Ordering Examples:** 1.) PX02C1-100GI is a 100 psi Gage Pressure transducer with a 1/2-18 NPT-Male fitting, a PT1H-10-6P Connector, and 4-20 mA output, \$475+175+19 = \$669. To order Mating Connector (not included) PT06F-10-6S, \$26.50.

2.) PX02K0-1KS5Z is a 1,000 psi Sealed Gage Pressure transducer, with a 1/2-20 UNF-Female fitting, a 10 ft (3m) cable, and Isolated 0 to 5 output, \$475+190 = \$665.

3.) PX02J1-015A5T is a 15 psi Absolute Pressure transducer with, a 1/2-20 UNF-Male fitting, PT1H-10-6P Connector, and a 0 to 5 Vdc output, \$540+155+19 = \$714. To order Mating Connector (not included) PT06F-10-6S, \$26.50.

4.) PX02K5-025GV-FM is a 25 psi Gage Pressure transducer, with a 1/2-20 UNF-Female fitting, a lightning protected amplifier housing, mV/V output, and Factory Mutual Hazardous Locations rating, \$540+155+19 = \$714.