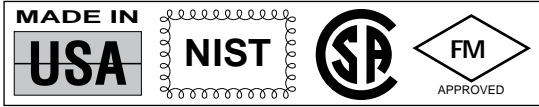




\$680
Model Shown



SPEC SHEET
PX01-mV

Interchangeable with
Model TH-1

OMEGADYNE
PX01 Series
mV/V Output

0-10 to 30,000 psi
0-700 mbar to 2,000 bar

1 bar = 14.5 psi
1 kg/cm² = 14.22 psi
1 Atmosphere = 14.7 psi = 29.93 in-Hg = 760.2 mm-Hg = 1.014 bar

- High Operating Temperature
163°C (325°F)
- FM/CSA Approved
Intrinsically Safe - Standard
- 3 mV/V Output
- All Stainless Steel Construction
- Shunt Calibration for Fast
System Set Up
- Hermetically Sealed Double
Diaphragm Design for Harsh
Environments

OMEGADYNE'S PX01 Series is a very high accuracy, 30 millivolt output, industrial pressure transducer. The all stainless steel construction and hermetically sealed case makes it suitable for harsh industrial environments. FM and CSA rating Intrinsically Safe is standard. The PX01 has a high operating range, a broad compensated range and excellent temperature compensation which give stable readings in applications with fluctuating temperatures. They are available in gage, sealed or absolute models as well as PSI or metric ranges. NPT and 1/16-20 O-ring pressure fittings are available for industrial and Hydraulic uses.

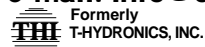
For Sales and Service
In U.S.A. and Canada

1-800-872-3963SM
1-800-USA-DYNE

International Customers Dial
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24-Hour FAX (614) 965-9438

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**VERY HIGH
ACCURACY
MILLIVOLT
OUTPUT
PRESSURE
TRANSDUCER**
7/16-20 O-Ring
Pressure Connection

Model PX01K1-100GV
Shown Actual Size

► Most Popular Models Highlighted ◀ Prices Shown in U.S. Dollars

To Order: (Specify Model Number)			
Models with 7/16-20 Pressure Connection and Bendix Style Connector			
Range (psi)	Model Number	Price	Compatible Meters
Absolute Pressure (All Ranges Available in Absolute Pressure)			
0-10	PX01K1-010AV	\$680	INFS, INFCS
0-15	PX01K1-015AV	680	INFS, INFCS
0-20	PX01K1-020AV	680	INFS, INFCS
0-25	PX01K1-025AV	680	INFS, INFCS
0-50	PX01K1-050AV	680	INFS, INFCS
Gage Pressure (All Ranges Also Available in Sealed Gage Pressure)			
0-10	PX01K1-010GV	750	INFS, INFCS
0-15	PX01K1-015GV	750	INFS, INFCS
0-50	PX01K1-050GV	680	INFS, INFCS
0-75	PX01K1-075GV	680	INFS, INFCS
0-100	PX01K1-100GV	680	INFS, INFCS
0-200	PX01K1-200GV	680	INFS, INFCS
0-300	PX01K1-300GV	680	INFS, INFCS
0-500	PX01K1-500GV	680	INFS, INFCS
0-1000	PX01K1-1KGV	680	INFS, INFCS
0-1500	PX01K1-1.5KGV	680	INFS, INFCS
0-2000	PX01K1-2KGV	680	INFS, INFCS
0-3500	PX01K1-3.5KGV	680	INFS, INFCS
0-5000	PX01K1-5KGV	680	INFS, INFCS
0-7500	PX01K1-7.5KGV	680	INFS, INFCS
0-10000**	PX01S1-10KGV	750	INFS, INFCS*
0-20000**	PX01S1-20KGV	750	INFS, INFCS*
0-30000**	PX01S1-30KGV	750	INFS, INFCS*

Interchangeable with Model TH-1 Metric Ranges Available - Consult Engineering
* 4-Digit Meter ** 1/4 HP Tube Fitting

To order Absolute Pressure replace "G" in model number with "A" (no charge on mV models.)
To order Sealed Gage Pressure replace "G" in model number with "S" (no charge)

Ordering Examples: 1.) PX01K1-500SV is a 500 psi Sealed Gage Pressure transducer with a mV/V output, a 7/16-20 female fitting, and a PT1H-10-6P Connector, \$680. Mating Connector (not included) **PT06F-10-6S, \$26.50.**

2.) PX01K1-100AV is a 100 psi Absolute Pressure transducer with a mV/V output, a 7/16-20 female fitting, and a PT1H-10-6P Connector, \$680. Mating Connector (not included) **PT06F-10-6S, \$26.50.**

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% FSO

Agency Approvals: FM/CSA
Intrinsically Safe IS/I.II.III/1/CDEFG
Standard

Shunt Calibration: Value specified on
Calibration sheet

Performance:

Accuracy Class: 0.05%

Linearity: ±0.05% FSO

Hysteresis: ±0.05% FSO

Repeatability: ±0.05% FSO

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

Environmental:

Operating Temp Range:

-73 to 163°C (-100 to 325°F)

Compensated Temp Range:

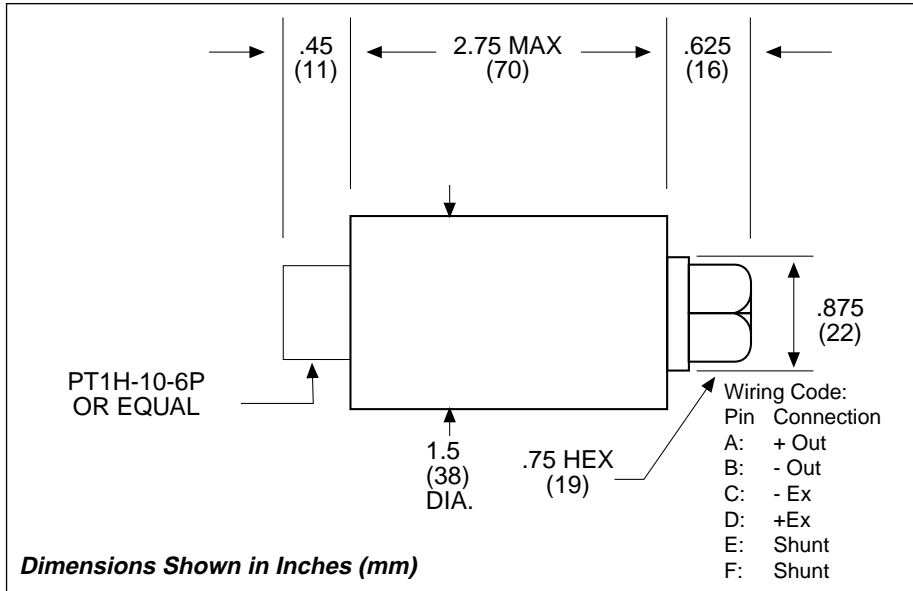
16 to 71°C (60 to 160°F)

Thermal Effects: Span: 0.0015%

Rdg/°F Zero: 0.001% 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



Dimensions Shown in Inches (mm)

Proof Pressure: 150% of rated pressure

Burst Pressure: 300% of rated pressure

Mechanical:

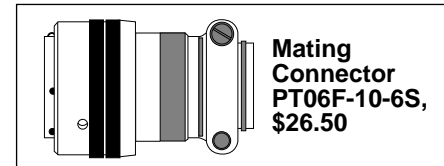
Wetted Parts: 17-4PH SS

Pressure Port: Ranges < 10,000 psi

¹/₁₆-20 UNF-2A female
Ranges ³/_{10,000} psi ⁹/₁₆-18, ¹/₄ inch
HP tube. Also available: ¹/₄-18 NPT
male or female or ⁷/₁₆-20 UNF-2A male

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

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



CUSTOM CONFIGURATIONS

SERIES PX01	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	OL = Overload Stops +\$45
	C = ¹ / ₄ -18 NPT-M +\$19		005*	S,G,A		
	D = ¹ / ₄ -18 NPT-F no charge		010	S,G,A	5T = 0 to 5Vdc Output +\$155 all ranges	OX = Cleaned for Oxygen use +\$75 & 2 weeks
	J = ⁷ / ₁₆ -20 UNF-M +\$19		015	S,G,A	5Z = Isolated 0 to 5 Vdc +\$190	
	K = ⁷ / ₁₆ -20 UNF-F no charge		020	S,G,A	10T= 0 to 10 Vdc Output +\$155 all ranges	
	Models ³ / _{10,000} psi		025	S,G,A	I = 4 to 20mA Output +\$175 all ranges	
	S = ¹ / ₄ HP Tube Fitting no charge		050	S,G,A		
			075	S,G,A		
	0 = 10ft cable (std) +\$2/ft over 10ft		100	S,G,A		
	1 = PT1H-10-6P Connector (or equal) (no charge)		150	S,G,A		
	Mating Connector (not in- cluded), PT06F-10-6S \$26.50.		200	S,G,A		
	5 = Lightning protected Amplifier Box (no charge) (4-20mA models only)		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		

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-1

Metric Ranges Available – Consult Engineering

Ordering Examples: 1.) PX01C1-100G1 is a 100 psi Gage Pressure transducer with a ¹/₄-18 NPT-Male fitting, a PT1H-10-6P Connector, and 4-20mA output, \$680+175+19 = **\$874**. Mating Connector (not included) order **PT06F-10-6S, \$26.50**.

2.) PX01K0-1KS5Z is a 1,000 Sealed Gage Pressure transducer with a ⁷/₁₆-20 UNF-Female fitting, a 10 ft cable, and Isolated 0 to 5 Vdc output, \$680+190 = **\$870**.

3.) PX01J1-015A5T is a 15 psi Absolute Pressure transducer with a ⁷/₁₆-20 UNF-Male fitting, PT1H-10-6P Connector, and 0 to 5 Vdc output, \$680+155+19 = **\$854**. Mating Connector (not included) order **PT06F-10-6S, \$26.50**.