



\$835
Model Shown

PX01 SERIES
0-5 Vdc Output
0-2 to 30,000 psi
0-140mbar to 0-2kbar

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

- ☑ Accuracy: 0.05%
- ☑ 5-Point Calibration Provided
- ☑ Internal Shunt-Resistor for Easy System Checks
- ☑ FM/CSA Intrinsically Safe - Standard
- ☑ All Stainless Steel Construction
- ☑ Hermetically Sealed Double Diaphragm Design for Harsh Environments
- ☑ Available in Gage, Absolute, Sealed Gage, psi and Metric Ranges
- ☑ Cable or Connector Models
- ☑ Optional Pressure Ports to Fit Most Industrial Applications

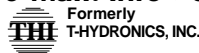
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In U.S.A. and Canada

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SPEC SHEET
PX01-5V

Interchangeable with
Model TH-1V



**VERY HIGH
ACCURACY
AMPLIFIED
VOLTAGE
OUTPUT
PRESSURE
TRANSDUCER**
**7/16-20 O-Ring
Connection**

Model PX01K1-100G5T
Shown Smaller than Actual Size

► Most Popular Models Highlighted ◀

Prices Shown in U.S. Dollars

To Order: (Specify Model Number)			
Models with 0-5V Output / 7/16-20 Connection / Bendix Connector			
Range (psi)	Model Number	Price	Compatible Meters
Absolute Pressure (All Ranges Available in Absolute Pressure)			
0-10	PX01K1-010A5T	\$835	INFP, INFCP, IDP
0-15	PX01K1-015A5T	835	INFP, INFCP, IDP
0-20	PX01K1-020A5T	835	INFP, INFCP, IDP
0-25	PX01K1-025A5T	835	INFP, INFCP, IDP
0-50	PX01K1-050A5T	835	INFP, INFCP, IDP
Gage Pressure (All Ranges Also Available in Sealed Gage Pressure)			
0-2	PX01K1-002G5T	905	INFP, INFCP, IDP
0-5	PX01K1-005G5T	905	INFP, INFCP, IDP
0-10	PX01K1-010G5T	905	INFP, INFCP, IDP
0-15	PX01K1-015G5T	905	INFP, INFCP, IDP
0-50	PX01K1-050G5T	835	INFP, INFCP, IDP
0-75	PX01K1-075G5T	835	INFP, INFCP, IDP
0-100	PX01K1-100G5T	835	INFP, INFCP, IDP
0-200	PX01K1-200G5T	835	INFP, INFCP, IDP
0-300	PX01K1-300G5T	835	INFP, INFCP, IDP
0-500	PX01K1-500G5T	835	INFP, INFCP, IDP
0-1000	PX01K1-1KG5T	835	INFP, INFCP, IDP
0-1500	PX01K1-1.5KG5T	835	INFP, INFCP, IDP
0-2000	PX01K1-2KG5T	835	INFP, INFCP, IDP
0-3500	PX01K1-3.5KG5T	835	INFP, INFCP, IDP
0-5000	PX01K1-5KG5T	835	INFP, INFCP, IDP
0-7500	PX01K1-7.5KG5T	835	INFP, INFCP, IDP
0-10000**	PX01S1-10KG5T	905	INFP, INFCP, IDP
0-20000**	PX01S1-20KG5T	905	INFP, INFCP*, IDP*
0-30000**	PX01S1-30KG5T	905	INFP, INFCP*, IDP*

* 4 Digit meter counts in increments of 10.

** 1/4 HP Tube Fitting

Interchangeable with Model TH-1V

Metric Ranges Available - Consult Engineering

To order Absolute Pressure replace "G" in model number with "A" (no extra charge)

To order Sealed Gage units replace "G" in model number with "S" (no extra charge)

Ordering Examples: 1.) **PX01K1-500G5T** is a 500 psi gage model with 0-5 Vdc output, a 7/16-20 female fitting, and a **PT1H-10-6P** Connector, **\$835**. 2.) **PX01K1-100A5T** is a 100 psi absolute pressure transducer with 0-5 V output, a 7/16-20 female fitting, and a **PT1H-10-6P** Connector, **\$835**. 3.) **PX01K1-200S5T** is a 200 psi sealed gage pressure transducer with 0-5 Vdc output, a 7/16-20 female fitting, and a **PT1H-10-6P** Connector, **\$835**. Mating Connector (not included) specify **PT06F-10-6S**, **\$26.50**.

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The OMEGADYNE™ PX01 Series transducers are very high accuracy, amplified voltage output, industrial pressure transducers. Their all stainless steel construction and hermetically sealed case make them suitable for harsh industrial environments. FM/CSA Intrinsically Safe rating is standard. A broad temperature compensated range of 60 to 160°F and excellent temperature compensation make these transducers very stable with fluctuating temperatures.

The PX01 is available in gage, absolute or sealed models as well as PSI or metric ranges. NPT and 7/16-20 O-ring seal fittings are available for industrial and Hydraulic applications.

SPECIFICATIONS: 0-5 Vdc Output

Electrical:

Excitation: 24 - 32 V ac/dc

Output: 0-5 Vdc ±10% adj.

Zero Balance: 0 V adj. ±10% FSO

Agency Approvals: FM/CSA Intrinsically Safe IS/II, III/1/CDEFG - standard

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 "double diaphragm" chamber

Shunt Calibration Value: Specified on calibration sheet

Environmental:

Operational Temp Range: -46 to 121°C (-50 to 250°F)

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

Thermal Effects:

Span: 0.0015% FSO/°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

Proof Pressure:

150% of rated pressure

Burst Pressure:

300% of rated pressure

Mechanical:

Wetted Parts: 17-4PH Stainless Steel

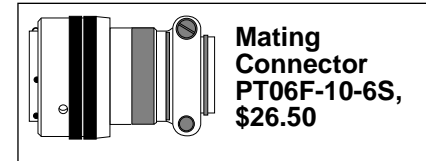
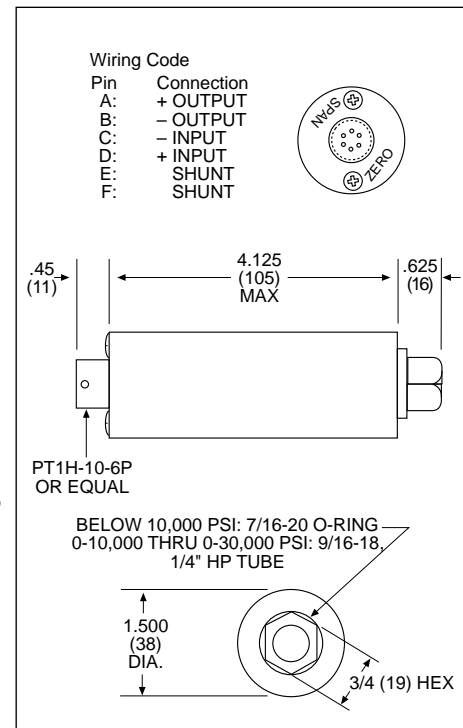
Pressure Port:

Ranges <10000 PSI: 7/16-20 UNF-2A Female

Ranges 10000-30000 PSI: 9/16-18, 1/4"

HP Tube also available: 1/4-18 NPT M/F

Electrical Connection: PT1H-10-6P or equal. Also available: 3 ft (0.9m) 6-conductor cable



CUSTOM CONFIGURATIONS

SERIES	PRESSURE PORT	ELECTRICAL CONNECTION	RANGE (PSI)	UNITS	OUTPUT	OPTIONS
PX01	[1]	[2]	[3]	[4]	[5]	[6]
	Models < 10,000 psi		002*	S,G,A	V = mV/V Output	OL = Overload Stops
	C = 1/4-18 NPT-M +\$19		005*	S,G,A	Base Price	+\$45
	D = 1/4-18 NPT-F (no charge)		010	S,G,A	5T = 0 to 5 Vdc Output	OX = Cleaned for Oxygen use
	J = 7/16-20 UNF-M +\$19		015	S,G,A	+\$155 all ranges	+\$75 & 2 weeks
	K = 7/16-20 UNF-F (no charge)		020	S,G,A	5Z = Isolated 0 to 5 Vdc	
	Models ≥10,000 psi		025	S,G,A	+\$190	
	S = 1/4 HP Tube Fitting (no charge)		050	S,G,A	10T= 0 to 10 Vdc Output	
			075	S,G,A	+\$155 all ranges	
	0 = 3 ft (0.9m) cable (std)		100	S,G,A	I = 4 to 20 mA Output	
	+ \$2/ft over 3ft		150	S,G,A	+\$175 all ranges	
	1 = PT1H-10-6P Connector or equal (no charge)		200	S,G,A		
	Mating Connector (not included)		250	S,G,A		
	PT06F-10-6S, \$26.50.		300	S,G,A		
	5 = Lightning protected		500	S,G,A		
	Amplifier Box (no charge)		750	S,G,A		
	(4-20 mA models only)		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		
	*2 and 5 psi Ranges available only with amplified output					

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-1V

Metric Ranges Available – Consult Engineering

Ordering Examples: 1.) **PX01C1-100GI** 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**.