

**SPEC SHEET**  
**PX01-5VNPT**

*Interchangeable with  
Model TH-1V*

**\$854**  
Model Shown

**PX01 SERIES**  
**0-5 Vdc Output**

**0-2 to 7,500 psi**  
**0-140 mbar to 0-500 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

- Very High Accuracy
- 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

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

**1-800-872-3963<sup>SM</sup>**  
**1-800-USA-DYNE**

**International Customers Dial  
(614) 965-9340**  
**24-Hour FAX (614) 965-9438**

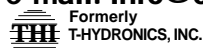
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Document # 3649

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**VERY HIGH  
ACCURACY  
AMPLIFIED  
VOLTAGE  
OUTPUT  
PRESSURE  
TRANSDUCER**  
**1/4 NPT Pressure  
Connection**

**Model PX01C1-100G5T**  
*Shown Smaller than Actual Size*

➔ *Most Popular Models Highlighted* ◀

*Prices Shown in U.S. Dollars*

<b>To Order: (Specify Model Number)</b>			
<b>Most Popular Models - 0-5 V Output / 1/4 NPT Connection / Connector Style</b>			
Range (psi)	Model Number	Price	Compatible Meters
<b>Absolute Pressure (All Ranges Available in Absolute Pressure)</b>			
0-10	PX01C1-010A5T	\$854	INFP, INFCP, IDP
0-15	PX01C1-015A5T	854	INFP, INFCP, IDP
0-20	PX01C1-020A5T	854	INFP, INFCP, IDP
0-25	PX01C1-025A5T	854	INFP, INFCP, IDP
0-50	PX01C1-050A5T	854	INFP, INFCP, IDP
<b>Gage Pressure (All Ranges Also Available in Sealed Gage Pressure)</b>			
0-2	PX01C1-002G5T	924	INFP, INFCP, IDP
0-5	PX01C1-005G5T	924	INFP, INFCP, IDP
0-10	PX01C1-010G5T	924	INFP, INFCP, IDP
0-15	PX01C1-015G5T	924	INFP, INFCP, IDP
0-50	PX01C1-050G5T	854	INFP, INFCP, IDP
0-75	PX01C1-075G5T	854	INFP, INFCP, IDP
0-100	PX01C1-100G5T	854	INFP, INFCP, IDP
0-200	PX01C1-200G5T	854	INFP, INFCP, IDP
0-300	PX01C1-300G5T	854	INFP, INFCP, IDP
0-500	PX01C1-500G5T	854	INFP, INFCP, IDP
0-1000	PX01C1-1KG5T	854	INFP, INFCP, IDP
0-1500	PX01C1-1.5KG5T	854	INFP, INFCP, IDP
0-2000	PX01C1-2KG5T	854	INFP, INFCP, IDP
0-3000	PX01C1-3KG5T	854	INFP, INFCP, IDP
0-3500	PX01C1-3.5KG5T	854	INFP, INFCP, IDP
0-5000	PX01C1-5KG5T	854	INFP, INFCP, IDP
0-7500	PX01C1-7.5KG5T	854	INFP, INFCP, IDP

\* 4 Digit meter counts in increments of 10.

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

**Ordering Examples:** 1.) **PX01C1-500G5T** is a 500 psi gage model with 0-5 Vdc output, a 1/4 NPT male fitting, and a **PT1H-10-6P** Connector, **\$854**. 2.) **PX01C1-100A5T** is a 100 psi absolute pressure transducer with 0-5 Vdc output, a 1/4 NPT male fitting, and a **PT1H-10-6P** Connector, **\$854**. 3.) **PX01C1-200S5T** is a 200 psi sealed gage pressure transducer with a 0-5 Vdc output, 1/4 NPT male fitting, and a **PT1H-10-6P** Connector, **\$854**. To order Mating Connector (not included) specify **PT06F-10-6S**, **\$26.50**.

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The OMEGADYNE PX01 series is a very high accuracy, amplified voltage output, industrial pressure transducer. The all stainless steel construction and hermetically sealed case makes it suitable for harsh industrial environments. It is a true high accuracy industrial device with FM/CSA Intrinsically Safe rating standard. A broad temperature compensated range of 60 to 160°F and excellent temperature compensation make this transducer 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/I.II.III/1/CDEFG - standard

#### Performance:

**Accuracy Class:** 0.05%

**Linearity:** ±0.05% FSO

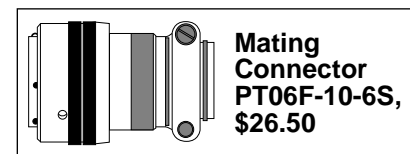
**Hysteresis:** ±0.05% FSO

**Repeatability:** ±0.05% FSO

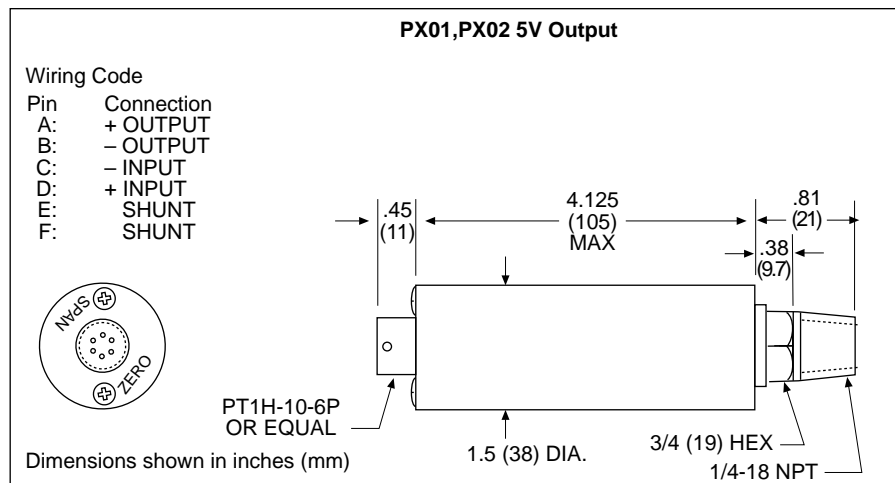
### CUSTOM CONFIGURATIONS

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
<b>C</b> = 1/4-18 NPT-M			005*	S,G,A	<b>Base Price</b>	<b>+\$45</b>
<b>D</b> = 1/4-18 NPT-F			010	S,G,A	<b>5T</b> = 0 to 5 Vdc Output	<b>OX</b> = Cleaned for Oxygen use
<b>J</b> = 7/16-20 UNF-M			015	S,G,A	<b>+\$155</b> all ranges	<b>+\$75 &amp; 2 weeks</b>
<b>K</b> = 7/16-20 UNF-F			020	S,G,A	<b>5Z</b> = Isolated 0 to 5 Vdc Output	
Models ≥10,000 psi			025	S,G,A	<b>+\$190</b> all ranges	
<b>S</b> = 1/4 HP Tube Fitting			050	S,G,A	<b>10T</b> = 0 to 10 Vdc Output	
			075	S,G,A	<b>+\$155</b> all ranges	
	<b>0</b> = 3 ft (0.9m) cable (std)		100	S,G,A	<b>I</b> = 4 to 20 mA Output	
	<b>+\$2/ft</b> over 3 ft		150	S,G,A	<b>+\$175</b> all ranges	
	<b>1</b> = PT1H-10-6P Connector or equal (no charge)		200	S,G,A		
	Mating Connector (not included)		250	S,G,A		
	<b>PT06F-10-6S, \$26.50.</b>		300	S,G,A		
	<b>5</b> = Lightning protected Amplifier Box (no charge) (4-20 mA models only)		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		

\* 2 and 5 psi Ranges available only with amplified output  
† 1/4 HP Tube Fitting



- 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



**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

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

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

**Mechanical:**

**Wetted Parts:** 17-4PH SS

**Pressure Port:**

Ranges <10000 psi: 1/4-18 NPTM  
Also Available: 7/16-20 UNF-2A M/F  
Ranges 10000-30000 psi: 9/16-18, 1/4" HP tube

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

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**.