



\$560
Model Shown

**PX6000 Series
0-5Vdc Output**

**0-15 to 0-300 psi
0-1 to 0-20 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 Reliability
- ☑ Long Term Stability
- ☑ All Stainless Steel Case
- ☑ Vacuum Range Available

Applications

- ☑ Automotive Test
- ☑ Research & Development
- ☑ Engineering Test & Evaluation
- ☑ Production Testing
- ☑ Flight Recorders
- ☑ Engine Monitoring
- ☑ Ground Support Equipment
- ☑ Built-In Temperature Sensor

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

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

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

OMEGADYNESM FAX

OMEGADYNE's 24-Hour
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**1-800-344-3963SM
1-800-DIG-DYNE**

Document # 3689

OMEGADYNE, Inc.

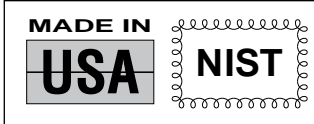
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Formerly
T-HYDRONICS, INC.

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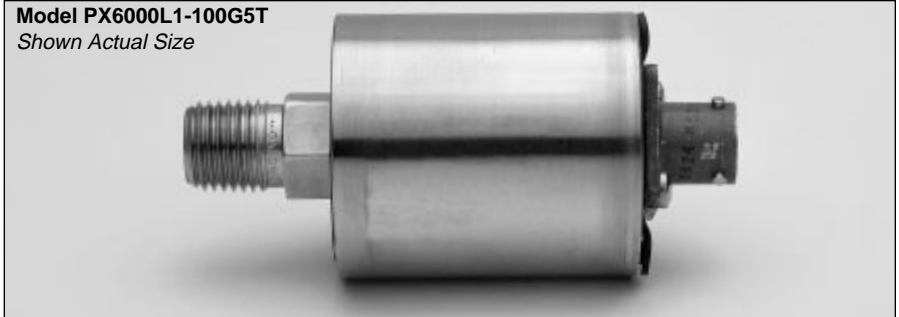


Interchangeable with
CEC Model 6000-xxxx

**SPEC SHEET
PX6000-5V**

Diffused Semiconductor Pressure Transducer

Model PX6000L1-100G5T
Shown Actual Size



The OMEGADYNE™ PX6000 Series pressure transducers fit easily into your application. These low cost transducers are small and light, and mounting requires no bulky structures. You select from three electrical terminations and six pressure fittings. The sensor is a small (about 0.1") square silicon chip with four diffused strain gages, mounted in the stainless steel case. Laser trimmed resistors provide temperature compensation and adjust zero balance and span. The 0-5 Vdc output is compatible with most control and data acquisition systems.

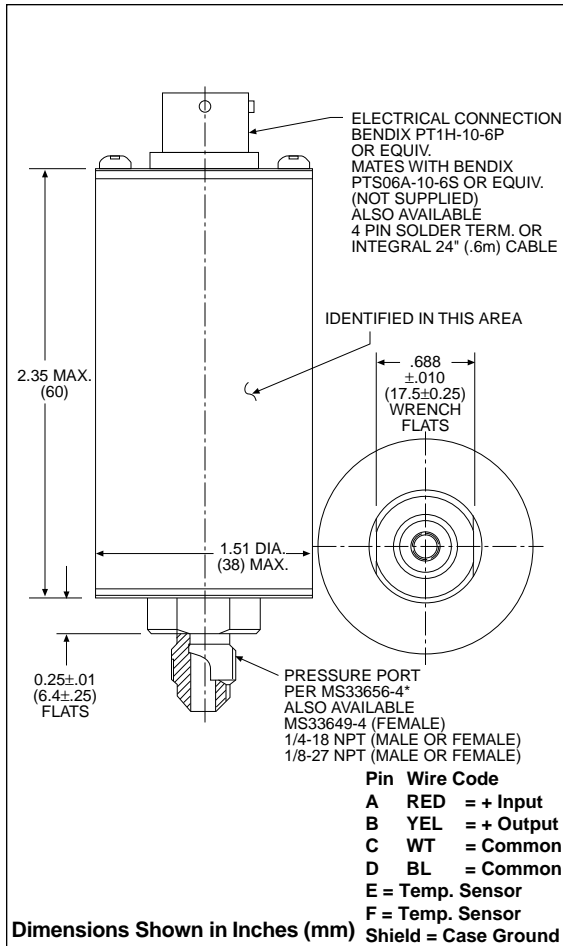
The PX6000 uses solid state media isolation for improved reliability. Thin films of chemically inert materials are deposited or grown on the chip surface to provide electrical isolation between the sensor and pressure medium. The sensor is less sensitive to vibration and more dependable in high shock environments because the films add no significant mass. Corrosion resistance is outstanding, and the isolation will remain effective because there is no gel or oil columns to deteriorate.

► Most Popular Models Highlighted ◀

Prices Shown in U.S. Dollars

To Order: (Specify Model Number)			
Models with 0-5Vdc Output, MS33656-4 Pressure Connection, Integral Connector			
Range (psi)	Model Number	Price	Compatible Meters
Vacuum			
30-0 (in-Hg)	PX6000L1-30VAC5T	\$560	INFP, INFCP, IDP
Absolute Pressure:			
0-15	PX6000L1-015A5T	560	INFP, INFCP, IDP
0-20	PX6000L1-020A5T	560	INFP, INFCP, IDP
0-50	PX6000L1-050A5T	560	INFP, INFCP, IDP
0-100	PX6000L1-100A5T	560	INFP, INFCP, IDP
0-200	PX6000L1-200A5T	560	INFP, INFCP, IDP
0-300	PX6000L1-300A5T	560	INFP, INFCP, IDP
Gage Pressure:			
0-15	PX6000L1-015G5T	560	INFP, INFCP, IDP
0-20	PX6000L1-020G5T	560	INFP, INFCP, IDP
0-50	PX6000L1-050G5T	560	INFP, INFCP, IDP
0-100	PX6000L1-100G5T	560	INFP, INFCP, IDP
0-200	PX6000L1-200G5T	560	INFP, INFCP, IDP
0-300	PX6000L1-300G5T	560	INFP, INFCP, IDP

Interchangeable with CEC Model 6005-xxxx Metric Ranges Available - Consult Engineering
Ordering Examples: 1.) **PX6000L1-050G5T** is a 50 psi Gage Pressure transducer with 0-5Vdc output, PT1H-10-6P electrical connection and MS33656-4 Male Pressure Port, \$560 ea, Mating Connector (not included) **PTS06A-10-6S**, \$47 ea. 2.) **PX6000L1-015A5T** is a 15 psi Absolute Pressure transducer with 0-5Vdc output, PT1H-10-6P electrical connection and MS33656-4 Male Pressure Port, \$560 ea, Mating Connector (not included) **PTS06A-10-6S**, \$47 ea.



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CUSTOM CONFIGURATIONS

SERIES PX6000	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (PSI)		OUTPUT [5]	OPTIONS [6]
			[3]	UNITS [4]		
A = 1/8-27 NPT Male			30*	VAC	V = mV/V Output	CAL5 = 5 point NIST Calibration +\$75 CAL11 = 11 point NIST Calibration +\$150 xxFT = Extra length of cable, \$2/ft over 3ft
B = 1/8-27 NPT Female			015	G,A	\$420 all ranges	
C = 1/4-18 NPT Male			020	G,A	5T = 0 to 5 Vdc Output	
D = 1/4-18 NPT Female			050	G,A	\$560 all ranges	
L = MS33656-4 Male			100	G,A	I = 4 to 20mA Output	
M = MS33649-4 Female			200	G,A	\$550 all ranges	
			300	G,A		
0 = 2 ft (0.6m) PVC cable (std) +\$2/ft over 2 ft (0.6m) 1 = PT1H-10-6P Connector (or equal) (no charge) Mating Connector not included, order PT06A-10-6S(SR) \$47.00 3 = 4-pin Eyelet Header (no charge) Temp. Sensor not availalbe on 4-pin connector			* 30VAC range is 30 to 0 in-Hg vacuum, all other ranges are psi			
<p>To Order a Custom Configuration:</p> <ol style="list-style-type: none"> 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 						

SPECIFICATIONS:

0-5Vdc Models

Electrical:

Excitation: 12 to 40Vdc
Unregulated

Output: 0-5Vdc ±0.1Vdc
Adjustable ±10% FSO

Input Current: 15mA
maximum with no load

Output Resistance: Less
than 200 ohms

Zero Balance: 0 V ±0.1 Vdc
Adjustable ±5% FSO

Dielectric Isolation

Resistance: 100 Megohms
minimum at 45 Vdc applied
between the case or a
conductive medium and the
bridge circuit

Sensing Element: 4 active-
arm bridge using a micro-
machined diffused silicon
diaphragm sensor, thin-film
media and dielectric isolation
barriers

Temperature Sensor:

Output resistance @ 24°C
(75°F) 900 to 1500 ohms

Temperature Coefficient:

8% min., 10% max. per
55.5°C (100°F)

Performance:

Accuracy: Combined
Linearity, Hysteresis and
Repeatability
≤ ± 0.25% FSO for all ranges

Environmental:

Operational Temp Range:
-54° to 121°C (-65° to 250°F)

Compensated Temp Range:

-18° to 82°C (0° to +180°F)

Thermal Effects: Span: ≤ ± 0.03% of
FSO/°F; Zero: ≤ ± 0.03% of FSO/°F

Vibration Sensitivity: At 20g peak
sinusoidal vibration from 10 Hz to 2000
Hz (1/2" D.A.), the output shall not exceed
0.04% FSO/g for 15 PSI range to
0.005% FSO/g for 100 PSI and above

Natural Frequency: Greater than
35 kHz for 100 PSI and above

Shock: 100g, 11 milliseconds half sine
wave without damage

Pressure:

Proof Pressure: 2.0 times rated
pressure will not cause changes in
performance beyond the specified
tolerances

Burst Pressure: 3.0 times rated
pressure for pressure ranges below
200 psi, or 2.5 times rated pressure for
pressure ranges above 200 psi will not
cause rupture of the pressure sensor

Mechanical:

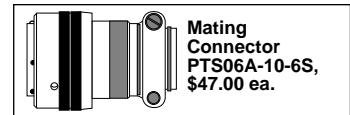
Wetted Parts: 316 Stainless Steel,
Silicon, pyrex glass, epoxy, Kovar

Electrical Connection: PT1H-10-6P
(standard) Optional: 2 ft (0.6m) cable or
4-pin solder terminal header

Pressure Port: MS33656-4 Male (std)
Optional: MS33649-4 Female, 1/4-18 or
1/8-27 NPT Male or Female

Weight: 6 oz (170g) Typical

Mating Connector (not Included)
PTS06A-10-6S



Interchangeable with CEC Model 6005-xxxx

Ordering Examples: 1.) **PX6000M1-100GI** is a 100 psi Vented Gage pressure transducer with an MS33649-4 female pressure connection, a PT1H-10-6P Electrical Connector and 4-20 mA output, **\$550**. Mating Connector (not included) **PTS06A-10-6S, \$47.00**.

2.) **PX6000A0-30VACV-25FT** is a 30 to 0 in-Hg Vacuum transducer with a 1/8-27 NPT male pressure connection, a reverse acting (30 in-Hg Vacuum = Full Scale Output) mV/V output, and a 25 ft cable, **\$420 + 46 = \$466**

3.) **PX6000L1-015A5T** is a 15 psi Absolute Pressure transducer with an MS33656-4 male pressure connection, a PT1H-10-6P Electrical Connector and 0 to 5 Vdc output, **\$560**. Mating Connector (not included) **PTS06A-10-6S, \$47.00**.

Metric Ranges Available - Consult Engineering