

SPEC SHEET
PX81-5V

*Interchangeable with
Model TH-D1V*

PX81 Series
0 to 5 Volt Output
0-1 to 0-500 psid
0-70 mbar to 0-35 bar
Differential Pressure

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 Accuracy Wet/Wet Differential Pressure**
- ☑ **All Stainless Steel Construction for Harsh Industrial Environments**
- ☑ **High Operating Temperature**
- ☑ **5 Point Calibration Provided**
0%, 50%, 100%, 50%, 0%

The OMEGADYNE™ PX81 Series wet-wet, differential pressure transducers are compact, high accuracy transducers designed for industrial applications where low drift and long term reliability are important. Their low temperature compensation error minimizes errors due to changing process temperatures and the rugged all stainless steel construction allows the PX81 to withstand typical harsh industrial environments found in chemical and industrial plants.

HIGH ACCURACY WET/WET DIFFERENTIAL PRESSURE TRANSDUCER

with Amplified Voltage Output

\$685
Model Shown



Model PX81D1-100D5T
Shown Actual Size

**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

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1-800-344-3963SM
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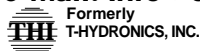
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► **Most Popular Models Highlighted** ◀

Prices Shown in U.S. Dollars

To Order: (Specify Model Number)			
Models with 0-5 Vdc Output, Integral Connector			
Range (psid)	Model Number	Price	Compatible Meters
0-1	PX81D[*]-001D5T	\$685	INFP, INFCP, IDP
0-2	PX81D[*]-002D5T	685	INFP, INFCP, IDP
0-5	PX81D[*]-005D5T	685	INFP, INFCP, IDP
0-10	PX81D[*]-010D5T	685	INFP, INFCP, IDP
0-20	PX81D[*]-020D5T	685	INFP, INFCP, IDP
0-50	PX81D[*]-050D5T	685	INFP, INFCP, IDP
0-100	PX81D[*]-100D5T	685	INFP, INFCP, IDP
0-200	PX81D[*]-200D5T	685	INFP, INFCP, IDP
0-300	PX81D[*]-300D5T	685	INFP, INFCP, IDP
0-500	PX81D[*]-500D5T	685	INFP, INFCP, IDP

Interchangeable with Model TH-D1V

Metric Ranges Available - Consult Engineering

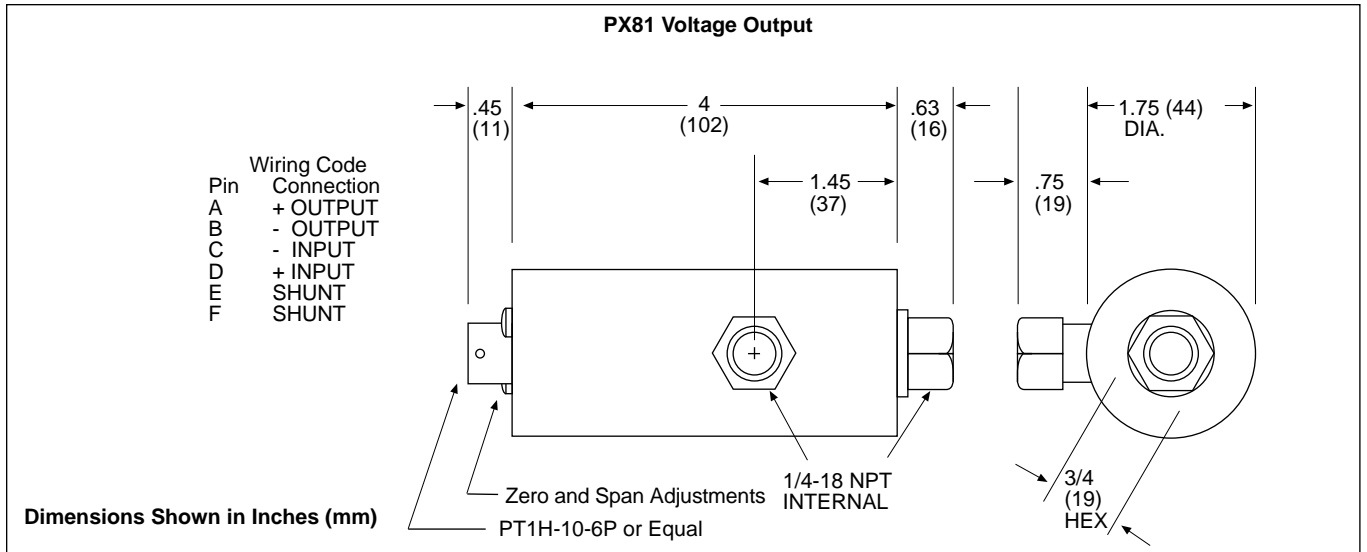
[*] Insert 0 for 10 ft cable or 1 for Bendix Connector

Ordering Examples: 1.) **PX81D1-300D5T** is a 300 psi differential pressure transducer with 0-5 Vdc output and integral connector, \$685. Mating connector (not included),

PT06F-10-6S \$26.50. 2.) **PX81D0-050D5T** is a 50 psi differential pressure transducer with 0-5 Vdc output and a 10 ft (3m) cable, \$685.

Printed On Recycled Paper





SPECIFICATIONS:

Electrical: 5Vdc Output

Excitation: 24-32 Vdc

Output: 0 to 5Vdc 10% adj

Zero Balance: 0V ±10% adj

Performance:

Accuracy Class: 0.25% Linearity, Hysteresis and Repeatability Combined

Environmental:

Operational Temp Range:

-46 to +121°C (-50 to +250°F)

Compensated Temp Range:

+17 to +71°C (+60 to +160°F)

Thermal Effects:

Zero: ±0.0025% FSO/°F

Span: ±0.003% Rdg/°F

Pressure:

Ranges (psid): 1, 2, 5, 10, 20, 30, 50, 100, 300, 500

Safe Over Pressure: 150% rated pressure

Burst Pressure: 300% rated pressure

Mechanical:

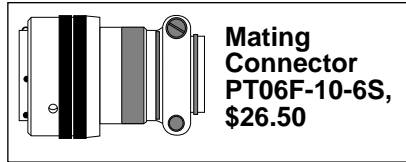
Wetted Parts: 17-4 PH Stainless Steel

Pressure Port: 1/4-18 NPT Female

Electrical Connection: PT1H-10-6P (or equal)

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

Optional: 10 ft (3m) 4-conductor shielded PVC cable



CUSTOM CONFIGURATIONS:

SERIES	PRESSURE PORT	ELECTRICAL CONNECTION	RANGE CODE (PSID)	UNITS	OUTPUT	OPTIONS
[1]	[2]	[3]	[4]	[5]	[6]	
PX81	D = 1/4-18 NPT-F (Standard)		001* 002* 005 010 020 030 050 100 200 300 500	D = differential pressure	V = mV/V Output \$550 5T= 0-5 Vdc \$685 I = 4-20 mA \$685	-OL Overload stops +\$45
	0 = 10 ft (3m) PVC Cable \$2/ft over 10ft					
	1 = PT1H-10-6P Connector or equal (no charge). Mating Connector (not included) order PT06F-10-6S \$26.50					

*Available only on Amplified 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-D1

Metric Ranges Available - Consult Engineering

Ordering Examples: 1.) PX81D0-500DI is a 500 psid range model with 4-20 mA output and 10 ft (3m) PVC cable, \$685.

2.) PX81D0-005DV is a 5 psid range model with mV/V output and 10 ft (3m) PVC cable \$550

3.) PX81D1-200D5T is a 200 psid range model with 0-5 Vdc output with an integral connector, \$685. Mating Connector, PT06F-10-6S, \$26.50.

4.) PX81D0-012DI is a 12 psid range model with 4-20 mA output with a 10 ft (3m) cable, \$685.

Look for OMEGADYNE Products on the World Wide Web!

<http://www.omegadyne.com>

e-mail: info@omegadyne.com