

SPEC SHEET
PX81-mV

*Interchangeable with
Model TH-D1*

PX81 Series
mV/V Output
0-5 to 0-500 psid
0-350 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.

**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

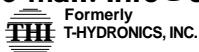
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HIGH ACCURACY WET/WET DIFFERENTIAL PRESSURE TRANSDUCER

\$550
Model Shown



Model PX81D1-100DV
Shown Larger than Actual Size

► **Most Popular Models Highlighted** ◀

Prices Shown in U.S. Dollars

To Order: (Specify Model Number)

Models with mV Output, Integral Connector

Range (psid)	Model Number	Price	Compatible Meters
0-5	PX81D[*]-005DV	\$550	INFS, INFCS
0-10	PX81D[*]-010DV	550	INFS, INFCS
0-20	PX81D[*]-020DV	550	INFS, INFCS
0-50	PX81D[*]-050DV	550	INFS, INFCS
0-100	PX81D[*]-100DV	550	INFS, INFCS
0-200	PX81D[*]-200DV	550	INFS, INFCS
0-300	PX81D[*]-300DV	550	INFS, INFCS
0-500	PX81D[*]-500DV	550	INFS, INFCS

Interchangeable with Model TH-D1

Metric Ranges Available - Consult Engineering

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

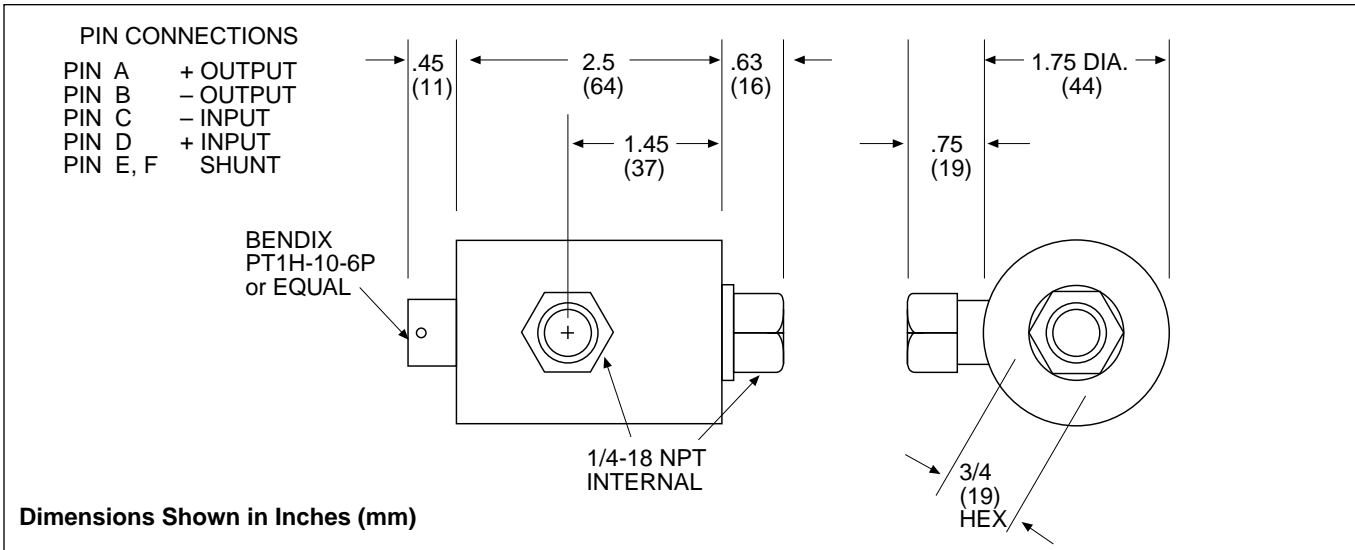
Ordering Examples: 1.) PX81D1-300DV is a 300 psid differential pressure transducer with 3 mV/V output and integral connector, \$550.

Mating connector (not included), **PT06A-10-6S, \$26.50.**

2.) PX81D1-010DV is a 10 psid differential pressure transducer with 3 mV/V output and integral connector, \$550. Mating connector (not included), **PT06A-10-6S, \$26.50.**

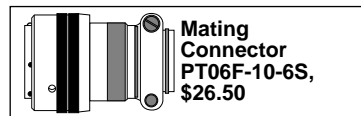
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SPECIFICATIONS:
Electrical: mV/V Output
Excitation: 10 Vdc (15 V max)
Output: 3 mV/V ±0.25%
Bridge Resistance: 350 ohms nominal
Zero Balance: ±1% FSO
Performance:
Accuracy Class: ±0.25% Linearity, Hysteresis and Repeatability Combined
Environmental:
Operational Temp Range: -73 to +163°C (-100 to +325°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: 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)
Optional: 10 ft (3m) 4-conductor shielded PVC cable
Mating Connector: PT06F-10-6S (not included)



CUSTOM CONFIGURATIONS:

SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE CODE (PSID) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [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					

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

* Available only on Amplified Models

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