

Interchangeable with  
Model TH-D

SPEC SHEET  
PX80-mV

**PX80 Series  
mV/V Output**  
±1 to ±5,000 psid  
±70 mbar to ±300 bar  
**Differential Pressure**

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

- ☑ Low Differential Pressure at High Line Pressure - up to 6,000 psi
- ☑ FM/CSA Intrinsically Safe
- ☑ All Stainless Steel Construction
- ☑ Hermetically Sealed for Harsh Environments
- ☑ High Overpressure Capability
- ☑ High Operating Temperature

The OMEGADYNE™ PX80 is a heavy duty, wet-wet, differential pressure transducer available in ranges from ±1 to ±5000 psid. High over pressure capacity, high operating temperature and excellent temperature compensation make the PX80 an extremely accurate and reliable transducer. The all stainless steel and rugged construction allow it to withstand harsh industrial environments. FM and CSA approved Intrinsically Safe rating is standard.

**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

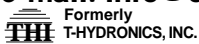
**OMEGADYNE<sup>SM</sup> FAX**

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**\$895**  
Model Shown

# INDUSTRIAL WET/WET DIFFERENTIAL PRESSURE TRANSDUCER

with High Over Pressure Capacity



► Most Popular Models Highlighted ◀

Prices Shown in U.S. Dollars

To Order: (Specify Model Number)			
Models with mV Output and Integral Connector			
Range (psid)	Model Number	Price	Compatible Meters
±1	PX80D[*]-001DV	\$950	INFS, INFCS
±2	PX80D[*]-002DV	950	INFS, INFCS
±4	PX80D[*]-004DV	950	INFS, INFCS
±8	PX80D[*]-008DV	950	INFS, INFCS
±12	PX80D[*]-012DV	950	INFS, INFCS
±20	PX80D[*]-020DV	950	INFS, INFCS
±30	PX80D[*]-030DV	950	INFS, INFCS
±50	PX80D[*]-050DV	895	INFS, INFCS
±100	PX80D[*]-100DV	895	INFS, INFCS
±200	PX80D[*]-200DV	895	INFS, INFCS
±300	PX80D[*]-300DV	895	INFS, INFCS
±500	PX80D[*]-500DV	895	INFS, INFCS
±700	PX80D[*]-700DV	895	INFS, INFCS
±1000	PX80B[*]-1KDV	895	INFS, INFCS
±1500	PX80B[*]-1.5KDV	895	INFS, INFCS
±2000	PX80B[*]-2KDV	895	INFS, INFCS
±2500	PX80B[*]-2.5KDV	895	INFS, INFCS
±3000	PX80B[*]-3KDV	895	INFS, INFCS
±5000	PX80B[*]-5KDV	895	INFS, INFCS

Interchangeable with Model TH-D

Metric Ranges Available - Consult Engineering

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

**Ordering Examples:** 1.) PX80D1-020DV is a ±20 psid range differential transducer with ¼ -18 NPT pressure fittings, a Bendix style electrical connector and a mV/V output, \$950.

2.) PX80B1-1KDV is a ±1,000 psid range differential transducer with ½ -27 NPT pressure fittings, a Bendix style electrical connector and a mV/V output, \$895.

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**SPECIFICATIONS: mV/V Output**

**Electrical:**

**Excitation:** 10 Vdc (15 V max)

**Output:** 2 mV/V

**Bridge Resistance:** 350 ohms

**Zero Balance:** ±1% FSO

**Performance:**

**Accuracy Class:**

≤30 psid: 0.5%

>30 psid: 0.25%

**Linearity:** ≤30 psid: ±0.5 % FSO

>30 psid : ±0.25% FSO

**Hysteresis:** 1-30 psid: ±0.15 % FSO

>30 psid : ±0.10% FSO

**Repeatability:** ±0.1% FSO

**Environmental:**

**Agency Approvals:** FM Intrinsically Safe IS/I.II.III/1/CDEFG - Standard

**Operational Temp Range:**

≤30 psid: -34 to +93°C (-30 to +200°F)

>30 psid: -73 to +163°C (-100 to +325°F)

**Compensated Temp Range:**

≤30 psid: -1 to +54°C (30 to +130°F)

>30 psid: +17 to +71°C (60 to +160°F)

**Thermal Effects:**

Zero: ≤30 psid: 0.007% FSO/°F

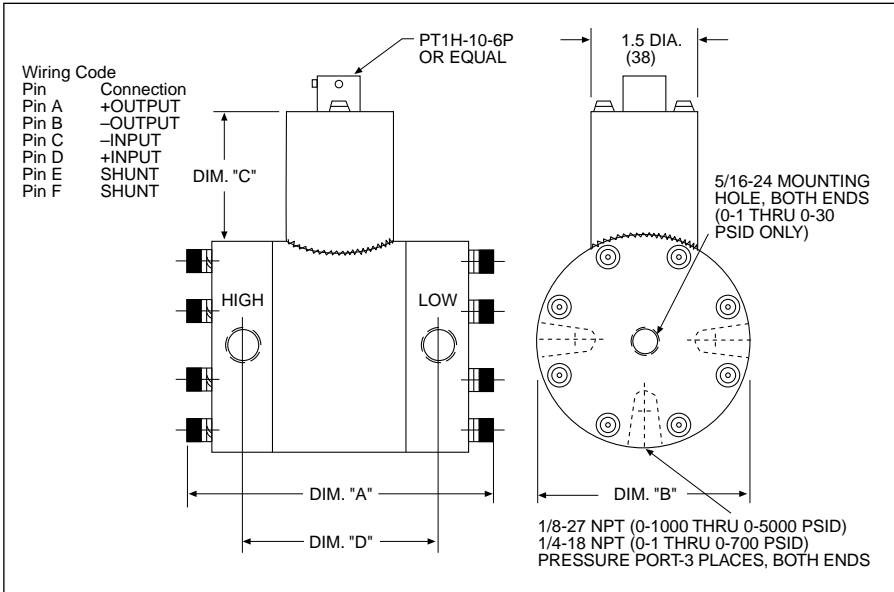
>30 psid : 0.005% FSO/°F

**CUSTOM CONFIGURATIONS:**

SERIES	PRESSURE PORT	ELECTRICAL CONNECTION	RANGE (PSID)	UNITS	OUTPUT	OPTIONS
PX80	[ 1 ]	[ 2 ]	[ 3 ]	[ 4 ]	[ 5 ]	[ 6 ]
<b>B</b> = 1/8-27 NPT-Female (Ranges ≥1000 psid) <b>D</b> = 1/4-18 NPT-F (no charge) (Ranges ≤700 psid)			001	<b>D</b> = differential pressure mV/V 5 Volt 4-20mA <b>\$950 \$1100 \$1100</b>	<b>V</b> = mV/V <b>5T</b> = 0-5Vdc <b>I</b> = 4-20 mA	
			002			
			004			
			008			
			012			
			020			
			030			
			050			
			100			
			200			
			300	<b>\$895 \$1045 \$1045</b>		
			500			
			700			
			1K			
			1.5K			
			2K			
			2.5K			
			3K			
			5K			

**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 Agency Approvals



**Dimensions Shown in Inches (mm)**

Capacity	A	B	C	D
1 to 30 psid	4.43 (113)	3.5 (89)	1.94 (49)	2.69 (68)
50 to 700 psid	4.38 (111)	3.0 (76)	1.94 (49)	2.94 (75)
1000 to 5000 psid	3.0 (76)	2.0 (51)	2.13 (54)	2.0 (51)

**Span:** ≤30 psid: 0.007% Rdg/°F  
 >30 psid : 0.005%Rdg/°F

**Pressure:**

**Ranges ±psid:** 1, 2, 4, 8, 12, 20, 30, 50, 100, 200, 300, 500, 700, 1K, 1.5K, 2K, 2.5K, 3K, 5K

**Line Pressure:** 1500 psi or 150% of rated pressure, whichever is greater

**Burst Pressure:** 6000 psi minimum

**Mechanical:**

**Wetted Parts:**

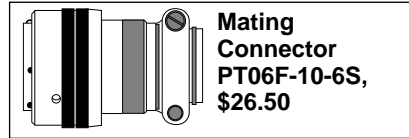
1-30 psid: 316 Stainless Steel  
 >30 psid: 17-4 PH Stainless Steel

**Pressure Port:**

1/4-18 NPTF for 0-1 to 0-700 psi  
 1/8-27 NPTF for 0-1000 psi and up

**Electrical Connection:** PT1H-10-6P (or equal) or 10 ft (3m) PVC cable

**Mating Connector:** PT06A-10-6S(SR) (not included)



Interchangeable with Model TH-D, TH-DV, TH-DVA

Metric Ranges Available - Consult Engineering

To order extra cable on Cable Style models, add suffix “-(length in feet)FT” and \$2/ft over the standard 10 ft (3m) length.

**Ordering Examples: 1.) PX80B5-1KDI** is a 1000 psid range model with 4-20 mA output and a lightning protected amplifier box, **\$1045.**

**2.) PX80D5-001DI-25FT** is a 1 psid range model, 4-20 mA output and 25 ft (7.6m) cable, 1100+30 = **\$1130**

**3.) PX80D1-200DV** is a 200 psid range model with mV/V output and an integral connector, **\$895.** Mating Connector (not included) **PT06F-10-6S, \$26.50.** **4.) PX80D1-012D5T** is a 12 psid range model with 0-5 Vdc output and an integral connector **\$1100.** Mating Connector (not included) **PT06F-10-6S, \$26.50.**