

SPEC SHEET

PX82-I

*Interchangeable with
Model TH-D2VA*

\$950

Model Shown

**PX82 Series
4-20 mA Output
0-50 to 800 in H₂O
0-125 to 0-2,000 mbar
Differential Pressure**

1 psi = 27.68 in-H₂O
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

- ✓ Inches of Water Differential at Line Pressure - up to 1500 psi
- ✓ FM/CSA Approved Intrinsically Safe - Standard
- ✓ FM Hazardous Locations - Optional
- ✓ Stainless Steel/Inconel Construction for Harsh Industrial Environments
- ✓ High Overpressure Capability High Operating Temperature
- ✓ 5 Point Calibration Provided 0%, 50%, 100%, 50%, 0%

LOW RANGE INDUSTRIAL WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

rating is standard. FM for Hazardous Locations is optional. The rugged stainless steel and Inconel Diaphragms and Stainless Steel body give the PX82 Series high reliability in harsh industrial environments.



Model PX82B0-100DI
Shown Smaller Than Actual Size

The OMEGADYNE™ PX82 Series wet-wet, differential pressure transmitters can measure inches of water differential at line pressure up to 1500 psi. This high line pressure capacity, high operating temperature and excellent temperature compensation make the PX82 Series an extremely accurate and reliable transducer. FM/CSA Intrinsically Safe

**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**

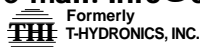
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Document # 3707

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► **Most Popular Models Highlighted** ◀

Prices Shown in U.S. Dollars

To Order: (Specify Model Number)			
Models with 4-20 mA Output			
Range (in-H ₂ O)	Model Number	Price	Compatible Meters
0-50	PX82B[*]-050WCDI	\$950	INFS, INFCS
0-100	PX82B[*]-100WCDI	950	INFS, INFCS
0-150	PX82B[*]-150WCDI	950	INFS, INFCS
0-200	PX82B[*]-200WCDI	950	INFS, INFCS
0-300	PX82B[*]-300WCDI	950	INFS, INFCS
0-500	PX82B[*]-500WCDI	950	INFS, INFCS
0-800	PX82B[*]-800WCDI	950	INFS, INFCS
Range (psi)	Model Number	Price	Compatible Meters
0-2	PX82B[*]-002DI	\$950	INFS, INFCS
0-3	PX82B[*]-003DI	950	INFS, INFCS
0-4	PX82B[*]-004DI	950	INFS, INFCS
0-5	PX82B[*]-005DI	950	INFS, INFCS
0-6	PX82B[*]-006DI	950	INFS, INFCS
0-8	PX82B[*]-008DI	950	INFS, INFCS
0-10	PX82B[*]-010DI	950	INFS, INFCS
0-15	PX82B[*]-015DI	950	INFS, INFCS
0-18	PX82B[*]-018DI	950	INFS, INFCS
0-22	PX82B[*]-022DI	950	INFS, INFCS

Interchangeable with Model TH-D2VA Metric Ranges Available - Consult Engineering

[*] Insert 0 for 10 ft cable or 1 for Bendix Connector
For FM hazardous location models add suffix "-FM" to model number (Add \$150)

Extra Cable Length: Add suffix "-(length in feet)FT", \$2/ft over standard 10 ft (3m length)

Ordering Examples: 1.) PX82B0-300WCDI-25FT is a 300 in-H₂O differential pressure transmitter with a 4-20 mA output and 25 ft (7.6m) shielded PVC cable, \$950+30 = \$980.

2.) PX82B1-005DI-FM is a 5 psi differential pressure transmitter with a 4-20 mA output, FM Hazardous Location rating and Bendix connector, \$950 + 150 = \$1100.

Mating Connector (not included) PT06F-10-6S, \$26.50.

Printed On Recycled Paper



LOW RANGE INDUSTRIAL WET/WET DIFFERENTIAL PRESSURE TRANSMITTER

SPECIFICATIONS: 4-20mA Output Electrical:

Excitation: 10-40 Vdc

Output: 4-20 mA

Zero Balance: 4 mA +10% -2% adj

Performance:

Accuracy Class: 0.25% FSO Linearity, Hysteresis and Repeatability Combined

Agency Approvals: FM/CSA
Intrinsically Safe IS/I.II.III/1/ABCDEF - Standard

FM Hazardous Location: S//1/ABCD - Must be specified at time of order.

Environmental:

Operational Temp Range:

-34 to +107°C (-30 to +225°F)

Compensated Temp Range:

-1 to +54°C (+30 to +130°F)

Pressure Effects:

Zero: <2% /1000 psi Line Pressure

Span: -2.45% /1000 psi Line Pressure

Thermal Effects:

Zero: ±0.50% FSO Maximum over compensated range

Span: ±0.50% Rdg Maximum over compensated range

Pressure:

Ranges: ± in-H₂O: 50, 100, 150, 200, 300, 500, 800 **psi:** 2,3,4,5,6,7,10, 15,18,22

Line Operating Pressure: 1500 psi

Safe Overpressure: 1000 psi each side

Burst Pressure: 2500 psi minimum

Mechanical:

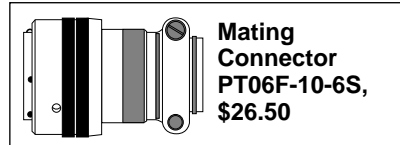
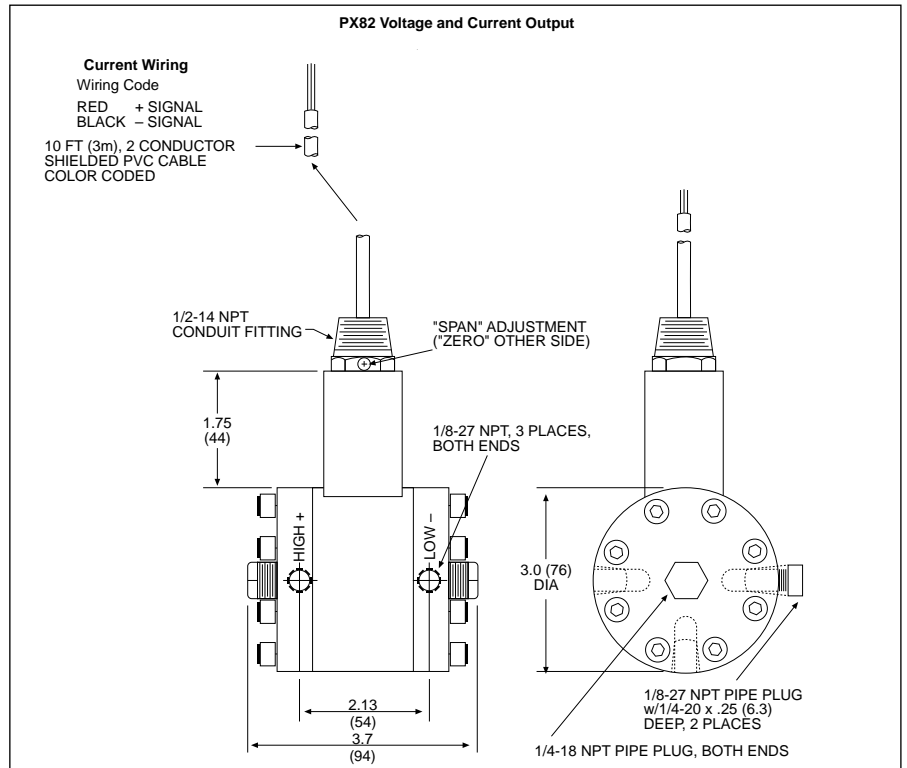
Wetted Parts: 17-4 PH Stainless Steel and Inconel 625

Pressure Port: 1/8-27 NPTF

Electrical Connection: 10 ft (3m) 2-conductor shielded cable

Optional: PT1H-10-6P (or equal) Integral Connector.

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



CUSTOM CONFIGURATIONS:

SERIES	PRESSURE PORT	ELECTRICAL CONNECTION	RANGE CODE	UNITS	OUTPUT	OPTIONS
PX82	[1]	[2]	[3]	[4]	[5]	[6]
	B = 1/8-27 NPT-F (Standard)		050WC 100WC 150WC 200WC 300WC 500WC 800WC	D = differential pressure	V = mV/V Output \$690 5V = 0.5-5.5 Vdc I = 4-20 mA \$765	FM = FM Hazardous Location - +\$150 (4-20 mA model only)
	0 = Shielded PVC Cable 4 ft (1.2m) mV/V models 10 ft (3m) on Amplified Models \$2/ft over standard length		002 003 004 005 006 008 010 015 018 022	in-H ₂ O psi		
	1 = PT1H-10-6P Connector or equal (no charge). Mating Connector not included, PT06F-10-6S, \$26.50					
	5 = Lightning Protected Amplifier Housing (4-20 mA models only)					

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-D2VA

Metric Ranges Available - Consult Engineering

Extra Cable Length: Add suffix "-(length in feet)FT", \$2/ft over standard length (10 ft (3m) on 5V and 4-20 mA output; 4 ft (1.2m) on mV/V output)

Ordering Examples: 1.) **PX82D0-500WC DI** is a 500 inch of water pressure range model with 4-20 mA output and 10 ft (3m) PVC cable, **\$950**.

2.) **PX82D0-010DV-50FT** is a 10 psi pressure range model with a mV/V output and 50 ft (15.2m) PVC cable \$795+92 = **\$887**

3.) **PX82D1-200WC DI** is a 200 inch of water pressure range model with 4-20 mA output with an integral connector, **\$950**. Mating Connector (not included) **PT06F-10-6S, \$26.50**. 4.) **PX82D1-800WC DI-FM** is a 800 inch of water pressure range model with 4-20 mA output with an integral connector and FM Hazardous Location rating, \$950+150 = **\$1100**. Mating Connector (not included) **PT06F-10-6S, \$26.50**.