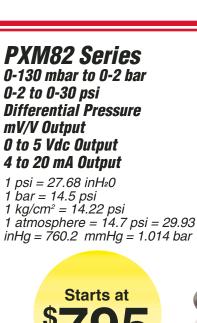
LOW-RANGE WET/WET INDUSTRIAL DIFFERENTIAL TRANSDUCER





(1500 psi)

✓ FM Approved Intrinsically Safe

✓ Stainless Steel/Inconel **Construction for Harsh** Industrial Environments

- High Overpressure Capability
- High Operating Temperature
- **✓** 5-Point Calibration Provided: 0%, 50%, 100%, 50%, 0%

OMEGA's PXM82 Series wet/wet, differential pressure transducers can measure inches of water differential at line pressures of up to 103 bar (1500 psi). This high line pressure capacity, a high operating temperature, and excellent temperature compensation make the PXM82 an extremely accurate and reliable transducer. An FM Approved Intrinsically Safe rating is standard. The rugged Inconel® diaphragms and stainless steel body give the PXM82 high reliability in harsh industrial environments. The PXM82 Series is available with mV/V, 5 V, or 4 to 20 mA outputs.



LOW-RANGE WET/WET INDUSTRIAL DIFFERENTIAL TRANSDUCER

SPECIFICATIONS

mV/V Output ELECTRICAL

Excitation: 10 Vdc (15 V max) Output: 1.5 mV/V nominal Input Resistance: 5000 Ω min Output Resistance: 5000 Ω ±25 Ω

Zero Balance: ±2% FS 0.5 to 5.5 Vdc Output

Electrical:

Excitation: 10 to 35 Vdc Output: 0.5 to 5.5 Vdc ±10% Zero Balance: 0.5 V ±2% adj

4 to 20mA Output

Electrical:

Excitation: 10 to 40 Vdc Output: 4 to 20 mA ±10% adj Zero Balance: 4 mA +10% -2% adj

COMMON SPECIFICATIONS PERFORMANCE

Accuracy: 0.5% linearity, hysteresis and repeatability combined

Agency Approvals: FM Intrinsically Safe IS/I.II.III/1/CDEFG standard

ENVIRONMENTAL Operating 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

Line Operating Pressure:

100 bar (1500 psi) Safe Overpressure: 70 bar (1000 psi) each side

Burst Pressure:

170 bar (2500 psi) minimum

MECHANICAL

Wetted Parts: 17-4 PH stainless steel

and Inconel 625

Pressure Port: Three G 1/4 and one

G ¼ female per side

Electrical Connection:

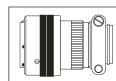
Style 0: 3 m (10') cable Style 1: PTIH-10-6P (or equal)

Style 6: Micro DIN **Mating Connector:**

Style 1: PT06F-10-6S (not included)

Style 6: Mating connector

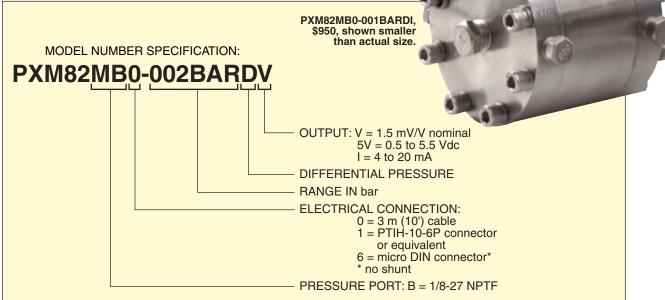
(included)



Mating Connector PT06F-10-6S \$26.50



CUSTOM CONFIGURATIONS



Comes with 5-point calibration.

To order extra cable on cable style models, add suffix "-(Total length in meters)M" and \$6.50/m beyond the standard 3 m (10') length.

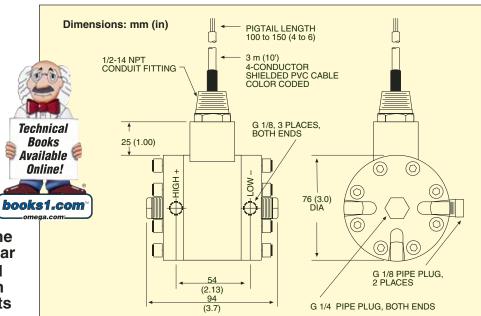
Ordering Examples: PXM82MD0-350mBARDI-10M, 350 mbar range model with 4 to 20 mA output and 10 m (32') cable, \$950 + (7 x 6.50) = \$995.50. PXM82MD1-500BARDV, 500 mbar range model with mV/V output and PTIH-10-6P, twist-lock connector, \$795. PT06F-10-6S, mating connector (not included), \$26.50. PXM82MD6-001BARD5V, 1 bar range model with 0.5 to 5.5 Vdc output and micro DIN connector, \$950. Mating connector included.

HOW TO ORDER PXM82 SERIES LOW-RANGE WET/WET INDUSTRIAL DIFFERENTIAL TRANSDUCER WITH mV/V OUTPUT

PXM82 Series

mV/V Output 0-130 mbar to 0-2 bar 0-2 to 0-30 psi **Differential Pressure**

> All Ranges mV Unit



- Pressure—Up to 100 bar
- Stainless Steel/Inconel Construction for Harsh Industrial Environments
- ✓ High Overpressure Capability
- High Operating **Temperature**
- ✓ 5-Point Calibration Provided: 0%, 50%, 100%, 50%, 0%

mV/V Output **ELECTRICAL**

Excitation: 10 Vdc (15 V max) Output: 1.5 mV/V nominal Input Resistance: 5000 Ω min Output Resistance: 5000 Ω ±25 Ω Zero Balance: ±2% FS

PXM82MB1-190mBARDI,\$950, shown smaller than actual size.





CONNECTIONS mV/V						
PIN Cable DIN						
+Output	Α	Green	2			
-Output	В	White	3			
-Input	С	Black	GRND			
+Input	D	Red	1			

MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>						
mV/V Outpu	mV/V Output with G ¼ Pressure Connection, Specify Electrical Termination					
RANGE	RANGE MODEL NO. PRICE COMPATIBLE METI			COMPATIBLE METERS*		
DIFFERENTIA	AL PRESSU	RE				
0 to 130 mbar	0 to 1.9 psi	PXM82MB[*]-130mBARDV	\$795	DP41-S, DP25B-S		
0 to 190 mbar	0 to 2.8 psi	PXM82MB[*]-190mBARDV	795	DP41-S, DP25B-S		
0 to 250 mbar	0 to 3.6 psi	PXM82MB[*]-250mBARDV	795	DP41-S, DP25B-S		
0 to 370 mbar	0 to 5.4 psi	PXM82MB[*]-370mBARDV	795	DP41-S, DP25B-S		
0 to 500 mbar	0 to 7.3 psi	PXM82MB[*]-500mBARDV	795	DP41-S, DP25B-S		
0 to 750 mbar	0 to 11 psi	PXM82MB[*]-750mBARDV	795	DP41-S, DP25B-S		
0 to 1.00 bar	0 to 15 psi	PXM82MB[*]-001BARDV	795	DP41-S, DP25B-S		
0 to 1.25 bar	0 to 18 psi	PXM82MB[*]-1.25BARDV	795	DP41-S, DP25B-S		
0 to 2.00 bar	0 to 30 psi	PXM82MB[*]-002BARDV	795	DP41-S, DP25B-S		

Comes with 5-point calibration.

[*] Insert "0" for 3 m (10') cable, "1" for twist-lock connector or "6" for micro DIN connector. See section D for compatible meters.

To order extra cable on cable style models, add suffix "-(Total length in meters)M" and \$6.50/m beyond the standard 3 m (10') length.

Ordering Examples: PXM82MD0-130mBARDV-10M, 130 mbar differential pressure transducer with 1.5 mV/V output and 10 m (32') cable, $\$795 + (7 \times 6.50) = \840.50 . **PXM82MD1-001BARDV**, 1 bar differential pressure transducer with 1.5 mV/V output and twist-lock connector, \$795. **PT06F-10-6S**, mating connector (not included), \$26.50.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION		
EE-2455	\$170	Reference Book: The Engineering Handbook		7
			_	г

HOW TO ORDER PXM82 SERIES LOW-RANGE WET/WET INDUSTRIAL DIFFERENTIAL TRANSMITTER WITH 0.5 TO 5.5 Vdc OUTPUT

PXM82 Series
0.5 to 5.5 Vdc Output
0-130 mbar to 0-2 bar
0-2 to 0-30 psi

0-2 to 0-30 psi Differential Pressure

\$950 5 V Unit



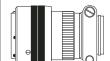
- mbar Differential at Line Pressure—Up to 100 bar
- FM Approved Intrinsically Safe
- Stainless Steel/Inconel® Construction for Harsh Industrial Environments
- High Overpressure Capability
- High Operating Temperature
- 5-Point Calibration Provided: 0%, 50%, 100%, 50%, 0%

0.5 to 5.5 Vdc Output ELECTRICAL

Excitation: 10 to 35 Vdc Output: 0.5 to 5.5 Vdc ±10% Zero Balance: 0.5 V ±2% adj

CONNECTIONS Volts

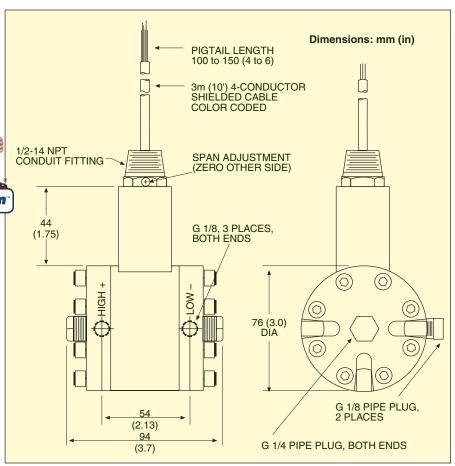
	PIN	Cable	DIN
+ Output	Α	Green	2
Output	В	White	3
– Inpút	С	Black	GRND
+ Input	D	Red	1



Style 1 Mating Connector PT06F-10-6S \$26.50

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
EE-2454	\$160	Reference Book: The Industrial Electronics Handbook



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number) Models with G ½ and G ½ Female Pressure Connection, Specify Electrical Termination					
RANGE					
DIFFERENTIA	L PRESSUF	RE			
0 to 130 mbar	0 to 1.9 psi	PXM82MB[*]-130mBARD5V	\$950	DP41-S, DP25B-S	
0 to 190 mbar	0 to 2.8 psi	PXM82MB[*]-190mBARD5V	950	DP41-S, DP25B-S	
0 to 250 mbar	0 to 3.6 psi	PXM82MB[*]-250mBARD5V	950	DP41-S, DP25B-S	
0 to 370 mbar	0 to 5.4 psi	PXM82MB[*]-370mBARD5V	950	DP41-S, DP25B-S	
0 to 500 mbar	0 to 7.3 psi	PXM82MB[*]-500mBARD5V	950	DP41-S, DP25B-S	
0 to 750 mbar	0 to 11 psi	PXM82MB[*]-750mBARD5V	950	DP41-S, DP25B-S	
0 to 1.00 bar	0 to 15 psi	PXM82MB[*]-001BARD5V	950	DP41-S, DP25B-S	
0 to 1.25 bar	0 to 18 psi	PXM82MB[*]-1.25BARD5V	950	DP41-S, DP25B-S	
0 to 2.00 bar	0 to 30 psi	PXM82MB[*]-002BARD5V	950	DP41-S, DP25B-S	

Comes with 5-point calibration.

[*] Insert "0" for 3 m (10') cable, "1" for twist-lock connector or "6" for micro DIN connector.

To order extra cable on cable-style models, add suffix "-(Total length in meters)M" and \$6.50/m beyond the standard 3 m (10') length.

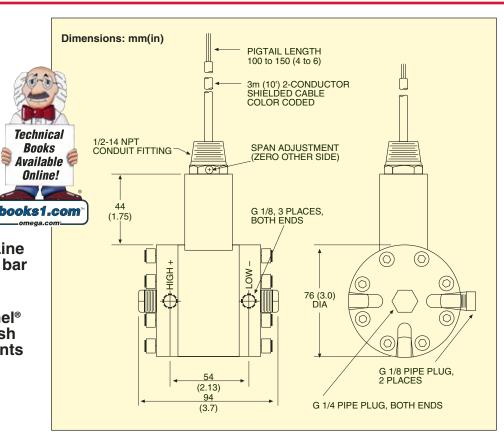
Ordering Examples: PXM82MD0-130mBARD5V-10M, 130 mbar differential pressure transmitter with 0.5 to 5.5 Vdc output and 10 m (32') cable, \$950 + (7 x 6.50) = \$995.50. PXM82MD1-001BARD5V, 1 bar differential pressure transmitter with 0.5 to 5.5 Vdc output and twist-lock connector, \$950. PT06F-10-6S, mating connector (not included), \$26.50.

^{*} See section D for compatible meters.

HOW TO ORDER PXM82 SERIES LOW-RANGE WET/WET INDUSTRIAL DIFFERENTIAL TRANSMITTER WITH 4 TO 20 mA OUTPUT

PXM82 Series 4 to 20 mA Output 0-130 mbar to 0-2 bar 0-2 to 0-30 psi Differential Pressure

> All Ranges \$950 mA Unit



- mbar Differential at Line Pressure—Up to 100 bar
- ✓ FM Approved Intrinsically Safe
- Stainless Steel/Inconel® Construction for Harsh Industrial Environments
- High Overpressure Capability
- High Operating Temperature
- 5-Point Calibration Provided: 0%, 50%, 100%, 50%, 0%

4 to 20 mA Output ELECTRICAL

Excitation: 10 to 40 Vdc
Output: 4 to 20 mA ±10% adj
Zero Balance: 4 mA +10% -2% adj
PXM82MB1-190mBARDI, \$950,
shown smaller than actual size.



MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>					
Models with G	1/2 and G 1/4 Fe	emale Pressure Connection,	Specify	Electrical Termination	
RANGE		GE MODEL NO. PRICE		COMPATIBLE METERS	
DIFFERENTIA	L PRESSUR	E			
0 to 130 mbar	0 to 1.9 psi	PXM82MB[*]-130mBARDI	\$950	DP41-S, DP25B-S	
0 to 190 mbar	0 to 2.8 psi	PXM82MB[*]-190mBARDI	950	DP41-S, DP25B-S	
0 to 250 mbar	0 to 3.6 psi	PXM82MB[*]-250mBARDI	950	DP41-S, DP25B-S	
0 to 370 mbar	0 to 5.4 psi	PXM82MB[*]-370mBARDI	950	DP41-S, DP25B-S	
0 to 500 mbar	0 to 7.3 psi	PXM82MB[*]-500mBARDI	950	DP41-S, DP25B-S	
0 to 750 mbar	0 to 11 psi	PXM82MB[*]-750mBARDI	950	DP41-S, DP25B-S	
0 to 1.00 bar	0 to 15 psi	PXM82MB[*]-001BARDI	950	DP41-S, DP25B-S	
0 to 1.25 bar	0 to 18 psi	PXM82MB[*]-1.25BARDI	950	DP41-S, DP25B-S	
0 to 2.00 bar	0 to 30 psi	PXM82MB[*]-002BARDI	950	DP41-S, DP25B-S	

Comes with 5-point calibration.

[*] Insert "0" for 3 m (10') cable, "1" for twist-lock connector or "6" for micro DIN connector * See Section D for compatible meters.

To order extra cable on cable-style models, add suffix "-(Total length in meters)M" and \$6.50/m beyond the standard 3 m (10') length.

Ordering Examples: PXM82MD0-130mBARDI-10M, 130 mbar differential pressure transmitter with 4 to 20 mA output and 10 m (32') cable, $\$950 + (7 \times 6.50) = \995.50 . PXM82MD1-001BARDI, 1 bar differential pressure transmitter with 4 to 20 mA output and twist-lock connector, \$950. PT06F-10-6S, mating connector (not included), \$26.50.

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION	
CE-1920	\$190	Reference Book: Thin Plates and Shells	

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