

HIGH ACCURACY WET/WET DIFFERENTIAL PRESSURE TRANSDUCER COMPACT SIZE

PXM81 Series
0-160 mbar to 0-35 bar
Differential Pressure
mV/V Output
0 to 5 Vdc Output
4 to 20 mA Output

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

Starts at
£369



- ✓ 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%

OMEGA's PXM81 Series wet/wet, differential pressure transducer is a compact, high accuracy transducer designed for industrial applications where low drift and long term reliability are important. Its small temperature compensation error minimizes errors due to changing process temperatures and the rugged all stainless steel construction allows the PXM81 to withstand typical harsh industrial environments found in chemical and industrial plants. Available with either mV/V, 0 to 5 Vdc or 4 to 20 mA outputs, the PXM81 Series transducers will interface most existing control systems.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
G 1/4 Pressure Connection, Specify Electrical Termination			
RANGE	MODEL NO.	PRICE	
Differential Pressure		5V or mA	mV/V
0 to 160 mbar	PXM81MD[*]-160MBARD[**]	£459	N/A
0 to 350 mbar	PXM81MD[*]-350MBARD[**]	459	£369
0 to 700 mbar	PXM81MD[*]-700MBARD[**]	459	369
0 to 1.4 bar	PXM81MD[*]-1.40BARD[**]	459	369
0 to 3.5 bar	PXM81MD[*]-3.50BARD[**]	459	369
0 to 7 bar	PXM81MD[*]-007BARD[**]	459	369
0 to 14 bar	PXM81MD[*]-014BARD[**]	459	369
0 to 20 bar	PXM81MD[*]-020BARD[**]	459	369
0 to 35 bar	PXM81MD[*]-035BARD[**]	459	369

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

[**] Insert "I" for 4 to 20 mA, "5T" for 0 to 5 Vdc, or "V" for mV/V output.

See page 291 for compatible meters.

To order extra cable on Cable Style models, add suffix "-(total length in metres)M" and add £4.35/m over the standard 3 m length.

Ordering Examples: PXM81MD0-014BARDI-10M, 14 bar differential pressure transducer with 4 to 20 mA output and 10 m cable, £459 + (7 x 4.35) = £489.45.

PXM81MD1-350MBARDI, 350 millibar differential pressure transducer with 4 to 20 mA output and a twist lock connector, £459. Mating connector (not included), PT06F10-6S, £17.75.

WET/WET DIFFERENTIAL PRESSURE TRANSDUCERS

SPECIFICATIONS

mV/V OUTPUT:

Excitation: 10 Vdc
(15 V max)

Output: 3 mV/V nominal

Bridge Resistance:

350 Ω minimum

Zero Balance:

$\pm 1\%$ FSO

5 Vdc OUTPUT

Excitation: 24 to 32 Vdc

Output: 0 to 5 Vdc $\pm 10\%$ adj

Zero Balance: 0 V $\pm 10\%$ adj

4 to 20 mA OUTPUT

Excitation: 10 to 40 Vdc

Output: 4 to 20 mA $\pm 10\%$

Zero Balance:

4 mA $+10\%$ -2% adj

COMMON SPECIFICATIONS

Accuracy: $\pm 0.5\%$ Linearity, Hysteresis and Repeatability Combined

Environmental:

Operational Temp Range:

mV/V: -73 to 163°C

5T and I: -46 to 121°C

Compensated Temp Range:

+17 to 71°C

Thermal Effects: mV/V and 5V

Zero: $\pm 0.009\%$ FSO/°C

Span: $\pm 0.0054\%$ rdg/°C

4 to 20 mA

Zero: $\pm 0.009\%$ FSO/°C

Span: $\pm 0.009\%$ rdg/°C

Pressure:

Safe Over Pressure:

150% rated pressure

Burst Pressure: 300% rated pressure

Mechanical:

Wetted Parts: 17-4 PH stainless steel

Pressure Port: G $\frac{1}{4}$ Female

Electrical Connection:

Style 0: 3 m cable,

Style 1: PTIH-10-6P (or equal)

Style 6: micro DIN

Mating Connector:

Style 1: PT06F10-6S (not included)

Style 6: Mating connector included



PXM81MD0-1.40BARDI, £369, shown close to than actual size.



Style 1 Mating Connector
PT06F10-6S,
£17.75

CUSTOM CONFIGURATIONS

MODEL NUMBER SPECIFICATION:

PX81D0-020DV



OUTPUT: V = 3 mV/V nominal
5T = 0 to 5 Vdc
I = 4 to 20 mA

DIFFERENTIAL PRESSURE

RANGE IN psi

ELECTRICAL CONNECTION:

0 = 3 m cable

1 = PTIH-10-6P connector or equiv.

6 = micro DIN connector

(no shunt)

PRESSURE PORT: D = 1/4-18 NPTF

To order extra cable on cable style models, add suffix “-(total length in metres)M” add £4.35/m over the standard 3 m length.

Ordering Examples: PXM81MD0-350mBARDI-10M, 350 mbar range model with 4 to 20 mA output and 10 metre cable, £459 + (7 x 4.35) = £489.45. PXM81MD1-3.50BARDV, 3.5 bar range model with mV/V output and PTIH-10-6P twist lock connector, £369. Mating connector (not included) PT06F10-6S £17.75. PXM81MD6-014BARD5T, 14 bar range model with 0 to 5 Vdc output with a micro DIN connector, £459. Mating connector included.

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