

HIGH ACCURACY MILLIVOLT OUTPUT PRESSURE TRANSDUCER G 1/8 OR G 1/4 CONNECTIONS

PXM02 Series mV/V Output 0-1 Bar to 400 Bar

1 bar = 14.5 psi
1 kg/cm² = 1.02 bar
1 Atmosphere = 1.014 bar = 760.2 mm-Hg = 29.93 in-Hg = 14.7 psi

\$475
Model Shown



- ✓ High Operating Temperature 163°C (325°F)
- ✓ FM Approved Intrinsically Safe
- ✓ 3 mV/V Output
- ✓ All Stainless Steel Construction
- ✓ Shunt Calibration for Fast System Set Up
- ✓ Stainless Steel Design for Harsh Environments

OMEGA's PXM02 Series is a high accuracy, 30 millivolt output, industrial pressure transducer. The all stainless steel construction makes it suitable for harsh industrial environments. FM approved intrinsically safe is standard. The PXM02 has a high operating range, a broad compensated range and excellent temperature compensation which gives stable readings in harsh applications. They are available in gauge, sealed or absolute models as well as bar or psi ranges. G 1/8 or G 1/4 pressure fittings are available as well as connector or cable electrical terminations.

SPECIFICATIONS: mV/V OUTPUT

Excitation: 10 Vdc (15Vdc max)

Output: 3 mV/V ±0.25%

Input Resistance: 350 Ω ±5 Ω

Output Resistance: 350 Ω ±5 Ω

Zero Balance: 1.0% FS

Linearity: ±0.15% FS

Cable Model
PXM02MD0-10BARGV
Shown Smaller than
Actual Size



micro DIN Connector Model
PXM02MC6-10BARGV
Shown Smaller than Actual Size

MOST POPULAR MODELS HIGHLIGHTED

To Order (Specify Model Number)

Models with G 1/4 Female Pressure Connection, Cable or Connector & mV/V Output

RANGE (Bar)	MODEL NUMBER	PRICE	COMPATIBLE METERS**
Gauge Pressure			
0-1	PXM02MD[*]-001BARGV	\$540	DP41-S, DP25B-S
0-1.6	PXM02MD[*]-1.60BARGV	475	DP41-S, DP25B-S
0-2.5	PXM02MD[*]-2.50BARGV	475	DP41-S, DP25B-S
0-4	PXM02MD[*]-004BARGV	475	DP41-S, DP25B-S
0-6	PXM02MD[*]-006BARGV	475	DP41-S, DP25B-S
0-10	PXM02MD[*]-010BARGV	475	DP41-S, DP25B-S
0-16	PXM02MD[*]-016BARGV	475	DP41-S, DP25B-S
0-25	PXM02MD[*]-025BARGV	475	DP41-S, DP25B-S
0-40	PXM02MD[*]-040BARGV	475	DP41-S, DP25B-S
0-60	PXM02MD[*]-060BARGV	475	DP41-S, DP25B-S
0-100	PXM02MD[*]-100BARGV	475	DP41-S, DP25B-S
0-160	PXM02MD[*]-160BARGV	475	DP41-S, DP25B-S
0-250	PXM02MD[*]-250BARGV	475	DP41-S, DP25B-S
0-400	PXM02MD[*]-400BARGV	475	DP41-S, DP25B-S

[*] = insert "0" for 3 m Cable or "6" for micro DIN connector

**See Section D for compatible Meters

To order Absolute Pressure replace "G" in model number with "A" (\$35 additional)

To order Sealed Gauge Pressure replace "G" in model number with "S" (no charge)

Ordering Examples:

- 1.) PXM02MD6-060BARSV is a 60 bar Sealed Gauge Pressure transducer with a mV/V output, a G 1/4 female fitting, and a micro DIN Connector, \$475. Mating Connector included.
- 2.) PXM02MC0-010BARAV is a 10 bar Absolute Pressure transducer with a mV/V output, a G 1/4 male fitting, and 3 m cable, \$475 + 50 = \$525.

SPECIFICATION (CONT)

Hysteresis: $\pm 0.10\%$ FS

Repeatability: $\pm 0.05\%$ FS

Agency Approvals:

Standard FM Intrinsically Safe IS/I.II.III/1/CDEFG

Shunt Calibration:

Value specified on Calibration sheet

Sensing Element:

4 active-arm bridge, using thick film strain gauges in a hermetically sealed chamber

Operating Temp Range:

-73 to 163°C (-100 to 325°F)

Compensated Temp Range:

16 to 71°C (60 to 160°F)

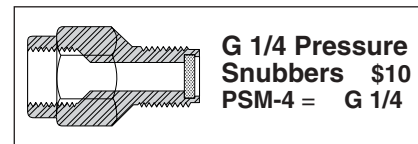
Thermal Effects:

Span: 0.0054% Rdg/°C

Zero: 0.0054% FS/°C

Proof Pressure:

150% of rated pressure



Female Connection

Burst Pressure:

300% of rated pressure

Wetted Parts:

17-4PH SS

Pressure Port: G 1/4 Male/Female or G 1/8 Male/Female

Electrical Connections:

Style 0 = 3 m cable

Style "6" = micro DIN

See Custom Configurations

Mating Connector:

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

Style "6" = included

Weight: 170 g (6 oz)

CUSTOM CONFIGURATIONS

—MODEL NUMBER SPECIFICATION:

PXM02MD0-006BARGV

OPTION CODES (add to end of model number)

—OL (for overload stops)

—OX (cleaned for oxygen use)

—[]m (Optional cable length)

Example:

—12m = 12 metres total of cable)

OUTPUT: V = 3 mV/V nominal

5T = 0 to 5 Vdc

5Z = isolated to 0 to 5 Vdc

10T = 0 to 10 Vdc

I = 4 to 20 mA

UNITS (A = absolute, S = sealed gauge, G = gauge)

RANGE

ELECTRICAL CONNECTION:

0 = 3 m cable

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

5 = lightning protection amplifier box (4-20 mA models only)

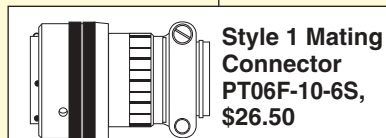
6 = micro DIN Connector* (*no shunt)

PRESSURE PORT: MA = G 1/8 male

MB = G 1/8 female

MC = G 1/4 male

MD = G 1/4 female - (std)



Ordering Examples:

1.) PXM02MA6-010BARGV is a 10 bar Gauge Pressure transducer with a G 1/8 Male fitting, a micro DIN Connector, and mV/V output, \$475. Mating Connector included.

2.) PXM02MB0-006BARSV is a 6 bar Sealed Gauge Pressure transducer with a G 1/8 Female fitting, a 3 m cable, and mV/V output, \$475.

3.) PXM02MC1-001BARAV is a 1 bar Absolute Pressure transducer with a G 1/4 Male fitting, PTIH-10-6P Connector, and mV/V output, \$525 + 50 = \$575. Mating Connector (not included) order PT06F-10-6S, \$26.50.