

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

Cable Model
PXM02MD0-010GV
Shown Smaller than
Actual Size

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

£390
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



micro DIN Connector Model
PXM02MC6-010GV
Shown Smaller than Actual Size

MOST POPULAR MODELS HIGHLIGHTED

To Order (Specify Model Number)			
Models with G 1/4 Male Pressure Connection, Cable or Connector & mV/V Output			
RANGE (Bar)	MODEL NUMBER	PRICE	COMPATIBLE METERS**
Gauge Pressure			
0-1	PXM02MC[*]-001GV	£443	i-series™, DP25B-S
0-1.6	PXM02MC[*]-1.60GV	390	i-series™, DP25B-S
0-2.5	PXM02MC[*]-2.50GV	390	i-series™, DP25B-S
0-4	PXM02MC[*]-004GV	390	i-series™, DP25B-S
0-6	PXM02MC[*]-006GV	390	i-series™, DP25B-S
0-10	PXM02MC[*]-010GV	390	i-series™, DP25B-S
0-16	PXM02MC[*]-016GV	390	i-series™, DP25B-S
0-25	PXM02MC[*]-025GV	390	i-series™, DP25B-S
0-40	PXM02MC[*]-040GV	390	i-series™, DP25B-S
0-60	PXM02MC[*]-060GV	390	i-series™, DP25B-S
0-100	PXM02MC[*]-100GV	390	i-series™, DP25B-S
0-160	PXM02MC[*]-160GV	390	i-series™, DP25B-S
0-250	PXM02MC[*]-250GV	390	i-series™, DP25B-S
0-400	PXM02MC[*]-400GV	390	i-series™, DP25B-S

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

**See Section S for compatible Meters

To order Absolute Pressure replace "G" in model number with "A" (£41 additional)
To order Sealed Gauge Pressure replace "G" in model number with "S" (no charge)

Ordering Examples:

- 1.) PXM02MD6-060SV is a 60 bar Sealed Gauge Pressure transducer with a mV/V output, a G 1/4 female fitting, and a micro DIN Connector, £390. Mating Connector included.
- 2.) PXM02MC0-010AV is a 10 bar Absolute Pressure transducer with a mV/V output, a G 1/4 male fitting, and 3 m cable, £390 + 41 = £431.





SPECIFICATION (CONT)

Hysteresis: ±0.10% FS

Repeatability: ±0.05% FS

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

Shunt Calibration:
Value specified on Calibration sheet

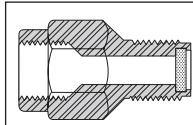
Sensing Element:
4 active-arm bridge, using thick film strain gauges in a hermetically sealed chamber

Operating Temp Range:
-73 to 163°C (-100 to 325°F)

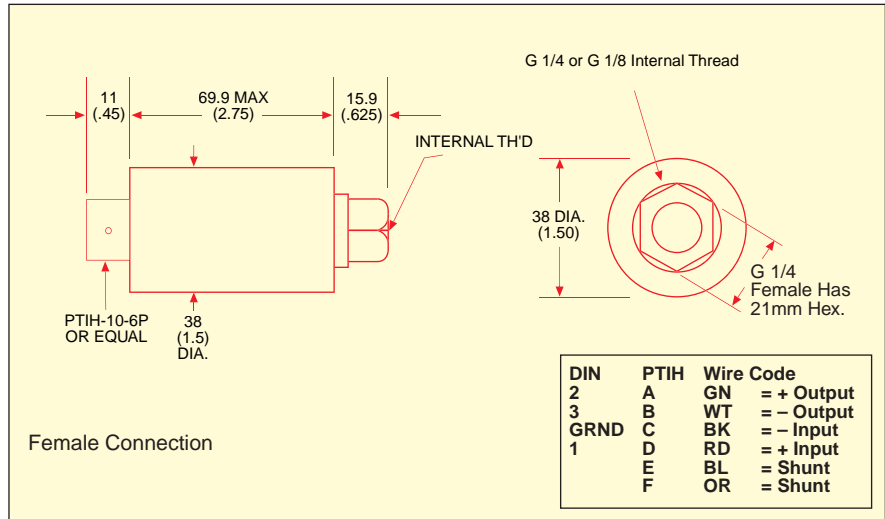
Compensated Temp Range:
16 to 71°C (60 to 160°F)

Thermal Effects:
Span: 0.0054% Rdg/°C
Zero: 0.0054% FS/°C

Proof Pressure:
150% of rated pressure

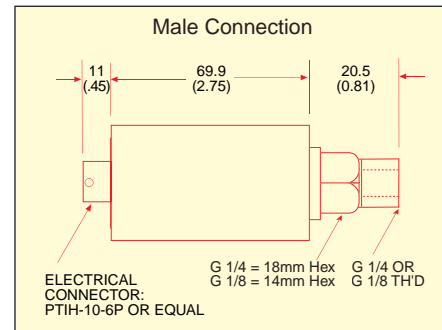


G 1/4 Pressure Snubbers
PSM-4 = £8.20



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)

Dimensions in mm (inches)



CUSTOM CONFIGURATIONS

-MODEL NUMBER SPECIFICATION:
PXM02MD0-006GV

OPTION CODES (add to end of model number)
 -OL (for overload stops) (add £53)
 -OX (cleaned for oxygen use) (add £62 + 2 weeks)
 -[]m (Optional cable length)
 Example:
 -12m = 12 metres total of cable) (add £5.30/metre)

OUTPUT: V = 3 mV/V nominal
 5T = 0 to 5 Vdc (add £127)
 5Z = isolated to 0 to 5 Vdc (add £156)
 10T = 0 to 10 Vdc (add £127)
 I = 4 to 20 mA (add £144)

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)

STYLE 1 MATING CONNECTOR:
 PT06F10-6S, £21.75

PRESSURE PORT: MA = G 1/8 male
 MB = G 1/8 female
 MC = G 1/4 male
 MD = G 1/4 female

Ordering Examples:

- 1.) PXM02MA6-010GV is a 10 bar Gauge Pressure transducer with a G 1/8 Male fitting, a micro DIN Connector, and mV/V output, £390. Mating Connector included.
- 2.) PXM02MB0-006SV is a 6 bar Sealed Gauge Pressure transducer with a G 1/8 Female fitting, a 3 m cable, and mV/V output, £390.
- 3.) PXM02MC1-001AV is a 1 bar Absolute Pressure transducer with a G 1/4 Male fitting, PTIH-10-6P Connector, and mV/V output, £433 + 41 = £474. Mating Connector (not included) order PT06F10-6S, £21.75.