Very High Accuracy Millivolt Output Pressure Transducer
G 1/8 or G 1/4 Connections

PXM01 Series
mV/V Output
0-1 Bar to 400 Bar

£575
Model Shown

☑️ High Operating Temperature 163°C
☑️ FM Approved Intrinsically Safe
☑️ 3 mV/V Output
☑️ All Stainless Steel Construction
☑️ Shunt Calibration for Fast System Set Up
☑️ Stainless Steel Construction for Harsh Environments

OMEGA’s PXM01 Series is a very 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 PXM01 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 ±10 Ω
Output Resistance: 350 Ω ±10 Ω
Zero Balance: 1.0% FS
Linearity: ±0.05% FS

MOST POPULAR MODELS HIGHLIGHTED

To Order (Specify Model Number)
Models with G 1/4 Male Pressure Connection, Cable or Connector & mV/V Output

<table>
<thead>
<tr>
<th>RANGE (Bar)</th>
<th>MODEL NUMBER</th>
<th>PRICE</th>
<th>COMPATIBLE METERS**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>PXM01MC[-001GV]</td>
<td>630</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-1.6</td>
<td>PXM01MC[-1.60GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
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<tr>
<td>0-2.5</td>
<td>PXM01MC[-2.50GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
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<tr>
<td>0-4</td>
<td>PXM01MC[-004GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-6</td>
<td>PXM01MC[-006GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-10</td>
<td>PXM01MC[-010GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-16</td>
<td>PXM01MC[-016GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-25</td>
<td>PXM01MC[-025GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-40</td>
<td>PXM01MC[-040GV]</td>
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<tr>
<td>0-60</td>
<td>PXM01MC[-060GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
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<tr>
<td>0-100</td>
<td>PXM01MC[-100GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-160</td>
<td>PXM01MC[-160GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-250</td>
<td>PXM01MC[-250GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
<tr>
<td>0-400</td>
<td>PXM01MC[-400GV]</td>
<td>575</td>
<td>i-series™, DP25B-S</td>
</tr>
</tbody>
</table>

[*] = 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.) PXM01MD6-050SV is a 50 bar Sealed Gauge Pressure transducer with a mV/V output, a G 1/4 female fitting, and a micro DIN Connector, £575. Mating Connector included.
2.) PXM01MC0-010AV is a 10 bar Absolute Pressure transducer with a mV/V output, a G 1/4 male fitting, and a 3 m cable, £575 + 41 = £616.
SPECIFICATIONS (CONT)

Hysteresis: ±0.05% FS
Repeatability: ±0.05% FS
Agency Approvals:
Standard FM Intrinsically Safe IS/I.II.I/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: 0.0027% Rdg/°C
Zero: 0.0027% FS/°C
Proof Pressure: 150% of rated pressure
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

CUSTOM CONFIGURATIONS

-MODEL NUMBER SPECIFICATION:
PXM01MD0-006GV

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 (See Page L-35)
  5Z = isolated to 0 to 5 Vdc (See Page L-35)
  10T = 0 to 10 Vdc (See Page L-35)
  I = 4 to 20 mA (See Page L-37)

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

Ordering Examples:
1.) PXM01MA1-010GI is a 10 bar Gauge Pressure transducer with a G 1/8 Male fitting, a PTIH-10-6P Connector, and 4-20 mA output, £700.
Mating Connector (not included) order PT06F-10-6S, £21.75.
2.) PXM01MB0-006S5Z is a 6 bar Sealed Gauge Pressure transducer with a G 1/8 Female fitting, a 3 m cable, and Isolated 0 to 5 Vdc output £730.
3.) PXM01MC1-001AST is a 1 bar Absolute Pressure transducer with a G 1/4 Male fitting, PTIH-10-6P Connector, and 0 to 5 Vdc output, £781.
Mating Connector (not included) order PT06F10-6S, £21.75.

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G 1/4 Pressure Snubbers
PSM-4 = £8.20