

# VERY HIGH ACCURACY AMPLIFIED VOLTAGE OUTPUT TRANSDUCER

## G 1/8 OR G 1/4 CONNECTIONS

**PXM01 Series**  
**0 to 5 Vdc Output**  
**0-160 mbar to 0-400 bar**

PXM01  
**\$835**  
Model Shown



- ✓ 0.05% Accuracy
- ✓ Internal Shunt Resistor for Easy System Checks
- ✓ FM Intrinsically Safe
- ✓ 5-Point Calibration Included
- ✓ All Stainless Steel Construction
- ✓ Available in Gauge, Absolute, Sealed Gauge, psi and Metric Ranges
- ✓ Cable or Connector Models
- ✓ Optional Pressure Ports to Fit Most Industrial Applications

OMEGA's PXM01 Series transducer is a very high accuracy, amplified voltage output, industrial pressure transducer. Its all stainless steel construction makes it suitable for harsh industrial environments. FM intrinsically safe rating is standard. A broad temperature compensated range of 16 to 71°C and excellent temperature compensation make this transducer very stable with fluctuating temperatures.

The PXM01 is available in gauge, absolute or sealed models as well as metric or psi ranges. G 1/4 and G 1/8 fittings are available for industrial and hydraulic applications.

Cable Model  
PXM01MD0-10BARG5T  
Shown Smaller than Actual Size



micro DIN Connector Model  
PXM01MC6-10BARG5T  
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 & 5V Output

RANGE (Bar)	MODEL NUMBER	PRICE	COMPATIBLE METERS**
<b>Gage Pressure</b>			
0 to 0.160	PXM01MD[*]-160mBARG5T	\$905	DP41-E, DP25B-E
0 to 0.400	PXM01MD[*]-400mBARG5T	905	DP41-E, DP25B-E
0 to 1	PXM01MD[*]-001BARG5T	905	DP41-E, DP25B-E
0 to 1.6	PXM01MD[*]-1.60BARG5T	835	DP41-E, DP25B-E
0 to 2.5	PXM01MD[*]-2.50BARG5T	835	DP41-E, DP25B-E
0 to 4	PXM01MD[*]-004BARG5T	835	DP41-E, DP25B-E
0 to 6	PXM01MD[*]-006BARG5T	835	DP41-E, DP25B-E
0 to 10	PXM01MD[*]-010BARG5T	835	DP41-E, DP25B-E
0 to 16	PXM01MD[*]-016BARG5T	835	DP41-E, DP25B-E
0 to 25	PXM01MD[*]-025BARG5T	835	DP41-E, DP25B-E
0 to 40	PXM01MD[*]-040BARG5T	835	DP41-E, DP25B-E
0 to 60	PXM01MD[*]-060BARG5T	835	DP41-E, DP25B-E
0 to 100	PXM01MD[*]-100BARG5T	835	DP41-E, DP25B-E
0 to 160	PXM01MD[*]-160BARG5T	835	DP41-E, DP25B-E
0 to 250	PXM01MD[*]-250BARG5T	835	DP41-E, DP25B-E
0 to 400	PXM01MD[*]-400BARG5T	835	DP41-E, DP25B-E

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

\*\*See Section D for compatible Meters

To order Absolute Pressure replace the "G" in model number with "A" (\$50 additional).  
To order Sealed Gauge units replace "G" in model number with "S" (no charge).

**Ordering Examples:** 1.) PXM01MD6-004BARG5T is a 4 bar gauge transducer with 0-5 V output, micro DIN connector and G 1/4 female pressure connection, \$835.  
Mating Connector included.

2.) PXM01MD0-001BARA5T is a 10 bar absolute transducer with 0-5 V output, 3 m Cable with 1/2 NPT conduit fitting and G 1/4 female pressure connection, \$905 + 50 = \$955.

# VERY HIGH ACCURACY AMPLIFIED VOLTAGE OUTPUT ALL STAINLESS STEEL TRANSDUCER

## SPECIFICATIONS: 0-5 Vdc OUTPUT

**Excitation:** 24 - 32 Vdc

**Output:** 0-5 Vdc  $\pm 10\%$  adj

**Linearity:** 0.05% FSO

**Hysteresis:** 0.05% FSO

**Repeatability:**  $\pm 0.05\%$  FSO

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

**Agency Approvals:** Standard

FM Intrinsically Safe

IS/I.II.III/1/CDEFG

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

**Shunt Calibration Value:**  
Specified on Calibration sheet

**Operational Temp Range:**

-46 to 121°C (-50 to 250°F)

**Compensated Temp Range:**

16 to 71°C (60 to 160°F)

**Thermal Effects:**

**Span:** 0.0036% of Rdg/°C

**Zero:** 0.0018% of FSO/°C

**Proof Pressure:**

150% of rated pressure

**Burst Pressure:**

300% of rated pressure

**Wetted Parts:** 17-4PH

Stainless Steel

**Pressure Port:** G 1/4 Male Std

Optional; G 1/4 Male,

G 1/8 Male/Female

**Electrical Connections:**

Style 0 = 3 m cable

Style "6" = micro DIN

See Custom Configurations

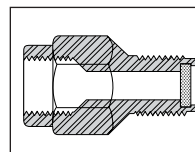
**Mating Connector:**

Style 1 = PT06F-10-6S (not

included)

Style "6" = included

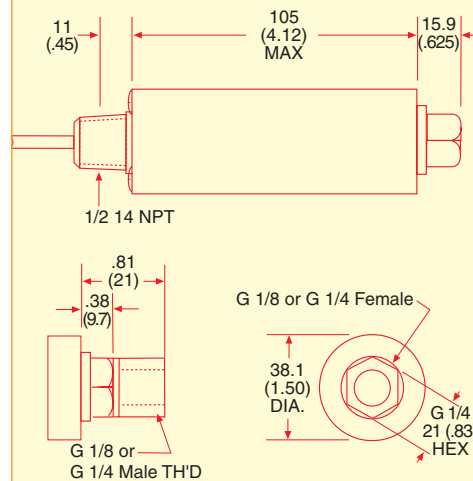
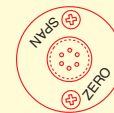
**Weight:** 170 g (6 oz)



**G 1/4 Pressure  
Snubbers \$10  
PSM-4 = G 1/4**

### Wiring Code

Pin	Connection
A:	+ OUTPUT
B:	- OUTPUT
C:	- INPUT
D:	+ INPUT
E:	SHUNT
F:	SHUNT



**Dimensions Shown in mm (inches)**

## CUSTOM CONFIGURATIONS

—MODEL NUMBER SPECIFICATION:

**PXM01MD0-006BARG5T**

### 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 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)



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

### Ordering Examples:

1.) **PXM01MA6-010BARG5T** is a 10 bar Gauge Pressure transducer with a G 1/8 Male fitting, a micro DIN Connector, and 0 to 5 Vdc output, **\$598**. Mating Connector included.

2.) **PXM01MB0-005BARS5T** is a 5 bar Sealed Gauge Pressure transducer with a G 1/8 Female fitting, a 3 m cable, and Isolated 0 to 5 Vdc output, **\$835**.

3.) **PXM01MC1-001BARA5T** is a 1 bar Absolute Pressure transducer with a G 1/4 Male fitting, PTIH-10-6P Connector, and 0 to 5 Vdc output, **\$835 + 50 = \$905**. Mating Connector (not included) order **PT06F-10-6S, \$26.50**.