

HIGH-ACCURACY CURRENT OUTPUT TRANSDUCER

STANDARD AND METRIC MODELS

1/16"-20 or 1/4" NPT Connections

4 to 20 mA Output

0-2 to 0-30,000 psi-Standard Models

0-150 mbar to 0-400 bar-Metric Models

PX02/PXM02 Series

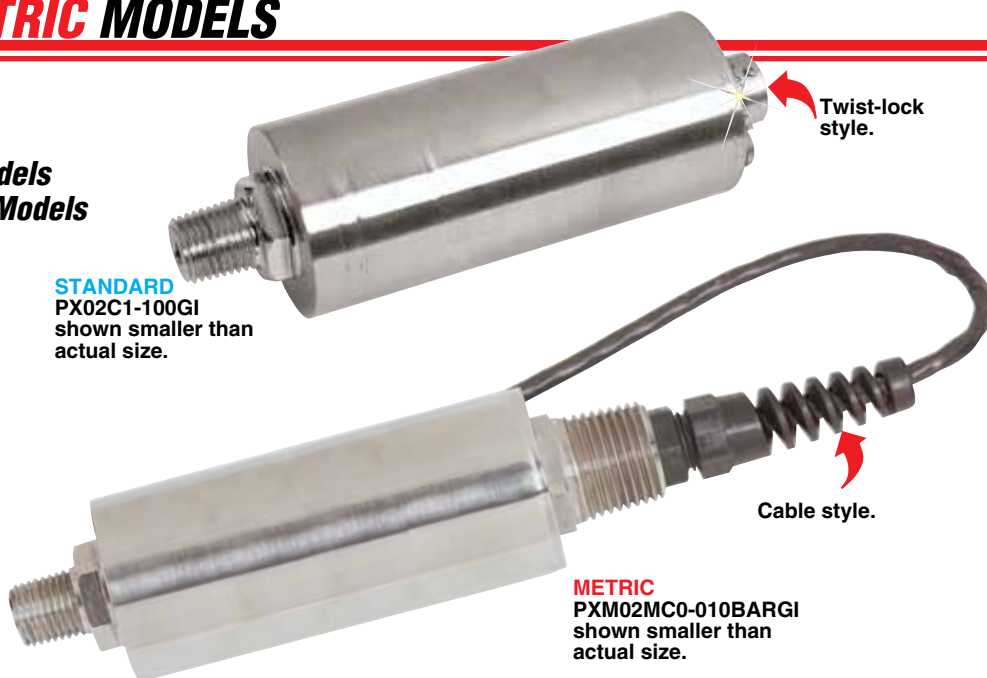


- ✓ High Accuracy
- ✓ 5-Point Calibration Provided
- ✓ All Stainless Steel Construction
- ✓ Hermetically Sealed Design for Harsh Environments
- ✓ Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- ✓ Cable or Connector Models
- ✓ Optional Pressure Ports to Fit Most Industrial Applications

OMEGA's PX02/PXM02 are high-accuracy industrial pressure transmitters. All stainless steel construction and a sealed case make the PX02/PXM02 suitable for harsh industrial environments. It is a true high-accuracy industrial device. A broad temperature-compensated range of 16 to 71°C (60 to 160°F) and a high operating range to 121°C (250°F) make these transducers very stable for applications with fluctuating temperatures.

The PX02 is available in gage, absolute, or sealed models, as well as in psi or metric ranges. NPT and 1/16"-20 O-ring seal fittings are available for industrial and hydraulic applications.

STANDARD
PX02C1-100GI
shown smaller than
actual size.



METRIC
PXM02MC0-010BARGI
shown smaller than
actual size.

SPECIFICATIONS

4 to 20 mA Output

Excitation: 10 to 40 Vdc

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

Zero Balance: 4 mA $+10\%$ -2% adj

Linearity: $\pm 0.15\%$ FSO

Hysteresis: $\pm 0.1\%$ FSO

Repeatability: $\pm 0.05\%$ FSO

Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber (except gage units)

Operating Temp Range:
-46 to 121°C (-50 to 250°F)

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

Thermal Effects:

Span: 0.009% FSO/°C

Zero: 0.009% FSO/°C

Proof Pressure:

150% of rated pressure

Burst Pressure:

300% of rated pressure

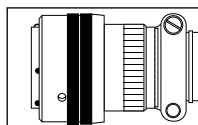
Wetted Parts: 17-4 PH stainless steel

Pressure Port: See custom configurations table on next page

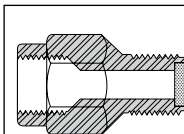
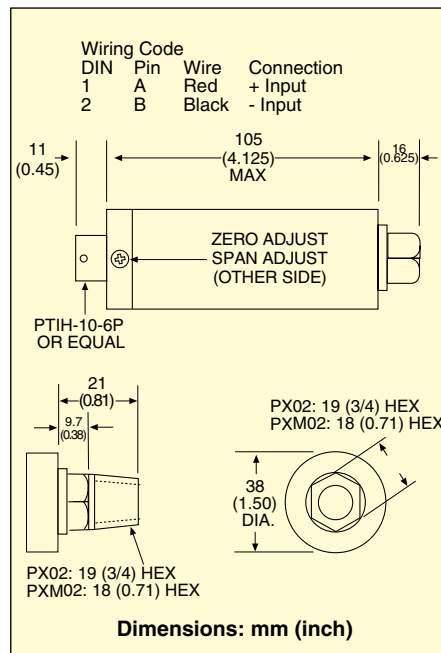
Electrical Connection: See custom configurations table on next page

Mating Connector: PT06F10-6S (sold separately)

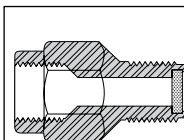
Weight: 388 g (13.7 oz)



**Mating
Connector
PT06F10-6S**



1/4" NPT Pressure Snubbers:
PS-4G = Gas
PS-4E = Lt Oil
PS-4D = Dense Lq



G1/4" Pressure Snubbers:
PS-4G-MG = Gas
PS-4E-MG = Lt Oil
PS-4D-MG = Dense Liquid

HIGH-ACCURACY ALL STAINLESS STEEL TRANSDUCER



CURRENT OUTPUT
PRESSURE TRANSDUCERS
B

STANDARD CUSTOM CONFIGURATIONS

PX02 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Models < 10,000 psi C = 1/4-18 NPT-M D = 1/4-18 NPT-F J = 7/16-20 UNF-M K = 7/16-20 UNF-F Models ≥ 10,000 psi S = 1/4 HP tube fitting			002* 005* 010 015 020 025 050 075 100 150 200 250 300 500 750 1K 1.5K 2K 3K 3.5K 5K 7.5K 10K† 20K† 30K†	A, G, S A, G, S	I = 4 to 20 mA output	OL = Overload stops + additional cost when available OX = Cleaned for oxygen service + additional cost plus 2 weeks () ft = Optional cable length in feet
0 = 3 m (10') cable (std) + add cost/ft over 3 m (10') 1 = PTIH-10-6P connector (or equal) Mating connector (sold separately), order PT06F10-6S 5 = Lightning-protected amplifier box (4 to 20 mA models only) 6 = mini DIN connector (no shunt cal)			* 2 and 5 psi ranges available only on amplified output. † Supplied with 1/4 HP tube fitting.			
For additional options, including extended temperature ranges, see omega.com			To order a custom configuration: 1. Select a pressure port 2. Select electrical connection 3. Select a pressure range 4. Select pressure units 5. Select output 6. Select options			

Ordering Example: PX02C1-100GI, 100 psi gage pressure transducer with 1/4-18 NPT male fitting, PTIH-10-6P, connector, and 4 to 20 mA output, PT06F10-6S, mating connector (sold separately).

METRIC CUSTOM CONFIGURATIONS

PXM02 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G1/8B Male MB = G1/8B Female MC = G1/4B Male MD = G1/4B Female			0.16 0.4 1.0 1.6 2.5 4.0 6.0 10 16 25 40 60 100 160 250 400	A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S A, G, S	I = 4 to 20 mA	OX = Cleaned for oxygen service OL = Overload stops () m = Optional cable length in meters
0 = 3 m (10') cable (std) + add cost/m over 3 m (10') 1 = PTIH-10-6P connector (or equal) 6 = mini DIN connector (no shunt cal)			To order a custom configuration: 1. Select a pressure port 2. Select electrical connection 3. Select a pressure range 4. Select pressure units – absolute, gage or sealed gage 5. Select output 6. Select options			
For additional options, including extended compensated temperatures, see omega.com						

Ordering Examples: PXM02MB0-010BARS, 10 bar sealed gage pressure transducer with G1/8B female connection and 3 m (10') cable termination.

PXM02MD1-010BARAI, 10 bar absolute pressure transducer with G1/4B female connection and twist-lock connector.
PT06F10-6S, mating connector (sold separately).

HIGH-ACCURACY CURRENT OUTPUT TRANSDUCER STANDARD AND METRIC MODELS

STANDARD MODELS

To Order				
RANGE		1/8-20 UNF MODEL NO.	1/4 NPT MODEL NO.	COMPATIBLE METERS†
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)				
0 to 10 psi	0 to 0.69 bar	PX02K[*]-010AI	PX02C[*]-010AI	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K[*]-015AI	PX02C[*]-015AI	DP41-E, DP25B-E
0 to 20 psi	0 to 1.4 bar	PX02K[*]-020AI	PX02C[*]-020AI	DP41-E, DP25B-E
0 to 25 psi	0 to 1.7 bar	PX02K[*]-025AI	PX02C[*]-025AI	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K[*]-050AI	PX02C[*]-050AI	DP41-E, DP25B-E
GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)				
0 to 2 psi	0 to 0.14 bar	PX02K[*]-002GI	PX02C[*]-002GI	DP41-E, DP25B-E
0 to 5 psi	0 to 0.34 bar	PX02K[*]-005GI	PX02C[*]-005GI	DP41-E, DP25B-E
0 to 10 psi	0 to 0.69 bar	PX02K[*]-010GI	PX02C[*]-010GI	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K[*]-015GI	PX02C[*]-015GI	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K[*]-050GI	PX02C[*]-050GI	DP41-E, DP25B-E
0 to 75 psi	0 to 5.2 bar	PX02K[*]-075GI	PX02C[*]-075GI	DP41-E, DP25B-E
0 to 100 psi	0 to 6.9 bar	PX02K[*]-100GI	PX02C[*]-100GI	DP41-E, DP25B-E
0 to 200 psi	0 to 13.8 bar	PX02K[*]-200GI	PX02C[*]-200GI	DP41-E, DP25B-E
0 to 300 psi	0 to 20.7 bar	PX02K[*]-300GI	PX02C[*]-300GI	DP41-E, DP25B-E
0 to 500 psi	0 to 34.5 bar	PX02K[*]-500GI	PX02C[*]-500GI	DP41-E, DP25B-E
0 to 1000 psi	0 to 68.9 bar	PX02K[*]-1KGI	PX02C[*]-1KGI	DP41-E, DP25B-E
0 to 1500 psi	0 to 103 bar	PX02K[*]-1.5KGI	PX02C[*]-1.5KGI	DP41-E, DP25B-E
0 to 2000 psi	0 to 138 bar	PX02K[*]-2KGI	PX02C[*]-2KGI	DP41-E, DP25B-E
0 to 3500 psi	0 to 241 bar	PX02K[*]-3.5KGI	PX02C[*]-3.5KGI	DP41-E, DP25B-E
0 to 5000 psi	0 to 345 bar	PX02K[*]-5KGI	PX02C[*]-5KGI	DP41-E, DP25B-E
0 to 7500 psi	0 to 517 bar	PX02K[*]-7.5KGI	PX02C[*]-7.5KGI	DP41-E, DP25B-E
0 to 10,000 psi**	0 to 689 bar	PX02S[*]-10KGI	PX02S[*]-10KGI	DP41-E, DP25B-E*
0 to 20,000 psi**	0 to 1379 bar	PX02S[*]-20KGI	PX02S[*]-20KGI	DP41-E, DP25B-E*
0 to 30,000 psi**	0 to 2068 bar	PX02S[*]-30KGI	PX02S[*]-30KGI	DP41-E, DP25B-E*

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock connector, or "6" for mini DIN connector.

Ordering Examples: PX02K1-1KGI, 1000 psi gage transducer with 4 to 20 mA output, twist lock connector and 1/8-20 female pressure connection. PT06F10-6S, mating connector (sold separately), PX02C0-010GI, 10 psi gage transducer with 4 to 20 mA output, 3 m (10') cable and 1/4 NPT male pressure connection.

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for PX02/PXM02 transducers with PTIH-10-6P electrical connection

Comes complete with 5-point calibration.
* 4-digit meter, counts in increments of 10.

** 1/4 HP tube fitting.

† See omega.com for compatible meters.

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock connector, or "6" for mini DIN connector.

To order absolute pressure models, replace "G" in model number with "A" and add **cost**. To order sealed gage models, replace "G" in model number with "S" (no extra charge).

Ordering Examples: PXM02MD6-4BARGI, 4 bar gage transmitter with 4 to 20 mA output, mini-DIN connector and G 1/4 female pressure connection. Mating connector included. PXM02MC0-010BARAI, 10 bar absolute transmitter with 4 to 20 mA output, 3 m (10') cable with 1/2 NPT conduit fitting and and G 1/4 male pressure connection.

METRIC MODELS

Models with G 1/4 Female Pressure Connection, Cable or Connector and 4 to 20 mA Output				
RANGE		MODEL NO.		COMPATIBLE METERS†
GAGE PRESSURE				
0 to 0.16 bar	0 to 2.32 psi	PXM02MD[*]-160mBARGI		DP41-E, DP25B-E
0 to 0.4 bar	0 to 5.8 psi	PXM02MD[*]-400mBARGI		DP41-E, DP25B-E
0 to 1 bar	0 to 15 psi	PXM02MD[*]-001BARGI		DP41-E, DP25B-E
0 to 1.60 bar	0 to 23 psi	PXM02MD[*]-1.60BARGI		DP41-E, DP25B-E
0 to 2.50 bar	0 to 36 psi	PXM02MD[*]-2.50BARGI		DP41-E, DP25B-E
0 to 4 bar	0 to 58 psi	PXM02MD[*]-004BARGI		DP41-E, DP25B-E
0 to 6 bar	0 to 87 psi	PXM02MD[*]-006BARGI		DP41-E, DP25B-E
0 to 10 bar	0 to 145 psi	PXM02MD[*]-010BARGI		DP41-E, DP25B-E
0 to 16 bar	0 to 232 psi	PXM02MD[*]-016BARGI		DP41-E, DP25B-E
0 to 25 bar	0 to 363 psi	PXM02MD[*]-025BARGI		DP41-E, DP25B-E
0 to 40 bar	0 to 580 psi	PXM02MD[*]-040BARGI		DP41-E, DP25B-E
0 to 60 bar	0 to 870 psi	PXM02MD[*]-060BARGI		DP41-E, DP25B-E
0 to 100 bar	0 to 1450 psi	PXM02MD[*]-100BARGI		DP41-E, DP25B-E
0 to 160 bar	0 to 2321 psi	PXM02MD[*]-160BARGI		DP41-E, DP25B-E
0 to 250 bar	0 to 3626 psi	PXM02MD[*]-250BARGI		DP41-E, DP25B-E
0 to 400 bar	0 to 5802 psi	PXM02MD[*]-400BARGI		DP41-E, DP25B-E