

HIGH-ACCURACY AMPLIFIED VOLTAGE OUTPUT PRESSURE TRANSDUCER

STANDARD AND METRIC MODELS

0 to 5 Vdc Output
0-2 to 0-30,000 psi-Standard Models
0-150 mbar to 0-400 bar-Metric Models

PX02/PXM02 Series



PX02K1-100G5T shown smaller than actual size.



VOLTAGE OUTPUT PRESSURE TRANSDUCERS
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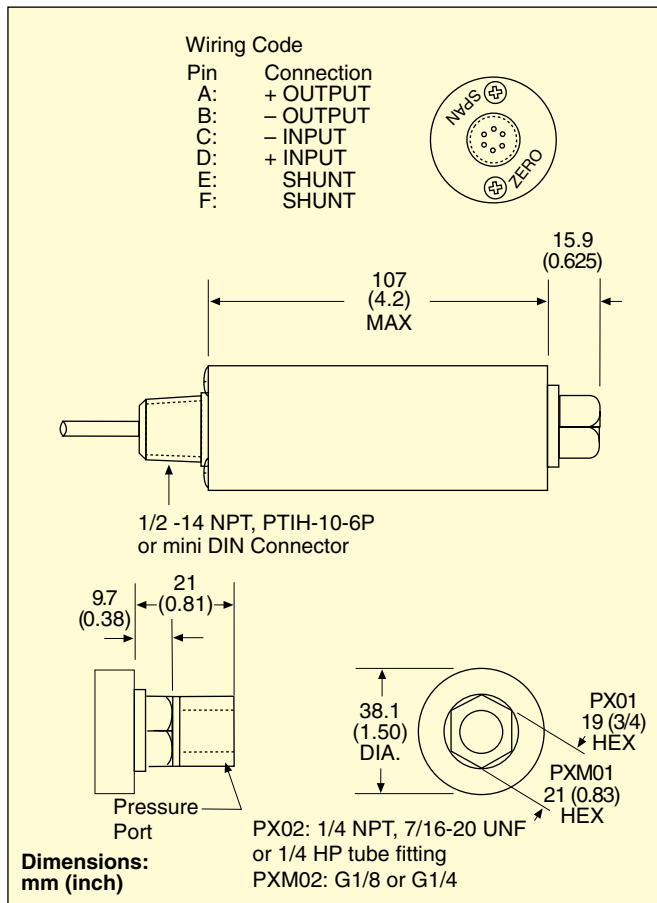
- ✓ Internal Shunt Resistor for Easy System Checks
- ✓ All Stainless Steel Construction
- ✓ Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- ✓ Cable, Connector Models or Mini DIN
- ✓ Optional Pressure Ports to Fit Most Industrial Applications

Proof Pressure: 150% of rated pressure
Burst Pressure: 300% of rated pressure
Wetted Parts: 17-4 PH stainless steel
Pressure Port: See custom configurations
Electrical Connection: See custom configurations
Mating Connector: (Style 1) PT06F10-6S (sold separately)
Weight: 388 g (13.7 oz)

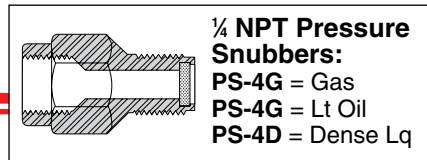
OMEGA's PX02/PXM02 are high-accuracy, amplified voltage output, industrial pressure transducers. All stainless steel construction and a hermetically sealed case make the PX02/PXM02 suitable for harsh industrial environments. They are a true high-accuracy industrial device.

SPECIFICATIONS

Excitation: 24 to 32 Vdc
Output: 0 to 5 Vdc $\pm 10\%$ adjustable
Linearity: $\pm 0.15\%$ FSO
Hysteresis: $\pm 0.1\%$ FSO
Repeatability: $\pm 0.05\%$ FSO
Zero Balance: 0 V $\pm 10\%$ adj
Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber (except gage units)
Shunt Calibration Value: Specified on calibration sheet
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: 0.003% of rdg/°F
Zero: 0.003% of FSO/°F

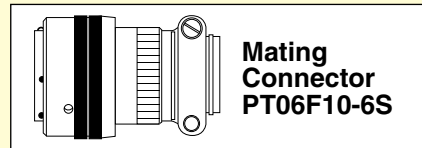


HIGH-ACCURACY ALL STAINLESS STEEL TRANSDUCER



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†	S,G,A S,G,A	5T = 0 to 5 Vdc output 5Z = Isolated 0 to 5 Vdc 10T = 0 to 10 Vdc output	OL = Overload stops + additional cost (when available) OX = Cleaned for oxygen use + additional cost plus 2 weeks ()ft = Optional cable length in feet + add cost/ft over 10 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					
	6 = mini DIN connector* * no shunt cal					
For additional options including extended compensated temperatures, visit us online.						

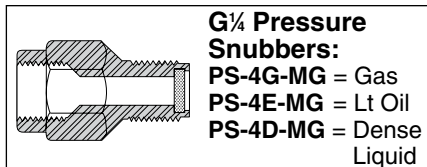


† Supplied with 1/4 HP tube fitting.

Ordering Examples: **PX02C1-100G5T**, 100 psi gage pressure transducer with 1/4-18 NPT male fitting, PTIH-10-6P, connector, and 0 to 5V output. **PT06F10-6S**, mating connector (sold separately). **PX02K0-1KS5Z**, 1000 psi sealed gage pressure transducer with 7/16-20 UNF female fitting, 3 m (10') cable and isolated 0 to 5 Vdc output. **PX02J1-015A5T**, 15 psi absolute pressure transducer with 7/16-20 UNF male fitting, PTIH-10-6P, connector and 0 to 5 Vdc output. **PT06F10-6S** mating connector (sold separately).

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



METRIC CUSTOM CONFIGURATIONS

PXM02 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G1/8 Male MB = G1/8 Female MC = G1/4 Male MD = G1/4 Female			0.16 0.4 1.0 1.6 2.5 4.0 6.0 10 16 25 40 60 100 160 250 400	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A	5T = 0 to 5 Vdc 5Z = Isolated 0 to 5 Vdc 10T = 0 to 10 Vdc output	OX = Cleaned for oxygen service OL = Overload stops ()m = Optional cable length in meters + add cost/m over 3 m
	0 = 3 m (10') cable (std) + add cost/m over 3 m (10')					
	1 = PTIH-10-6P connector (or equal) Mating connector (sold separately), order PT06F10-6S					
	6 = mini DIN connector* *no shunt cal					
For additional options including extended compensated temperatures, visit us online.						

Ordering Examples: **PXM02MB0-010BARS5T**, 10 bar sealed gage pressure transducer with G1/8 female connection and 3 m (10') cable termination.

PXM02MD1-010BARAV, 10 bar absolute pressure transducer with G1/8 female connection and twist-lock 6 pin connector. **PT06F10-6S**, mating connector (sold separately).

STANDARD MODELS

To Order

RANGE	$\frac{1}{16}$ -20 UNF MODEL NO.	$\frac{1}{4}$ NPT MODEL NO.	COMPATIBLE METERS†	
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)				
0 to 10 psi	0 to 0.69 bar	PX02K1-010A5T	PX02C1-010A5T	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K1-015A5T	PX02C1-015A5T	DP41-E, DP25B-E
0 to 20 psi	0 to 1.4 bar	PX02K1-020A5T	PX02C1-020A5T	DP41-E, DP25B-E
0 to 25 psi	0 to 1.72 bar	PX02K1-025A5T	PX02C1-025A5T	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K1-050A5T	PX02C1-050A5T	DP41-E, DP25B-E
GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)				
0 to 2 psi	0 to 0.14 bar	PX02K1-002G5T	PX02C1-002G5T	DP41-E, DP25B-E
0 to 5 psi	0 to 0.34 bar	PX02K1-005G5T	PX02C1-005G5T	DP41-E, DP25B-E
0 to 10 psi	0 to 0.69 bar	PX02K1-010G5T	PX02C1-010G5T	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K1-015G5T	PX02C1-015G5T	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K1-050G5T	PX02C1-050G5T	DP41-E, DP25B-E
0 to 75 psi	0 to 5.2 bar	PX02K1-075G5T	PX02C1-075G5T	DP41-E, DP25B-E
0 to 100 psi	0 to 6.9 bar	PX02K1-100G5T	PX02C1-100G5T	DP41-E, DP25B-E
0 to 200 psi	0 to 13.8 bar	PX02K1-200G5T	PX02C1-200G5T	DP41-E, DP25B-E
0 to 300 psi	0 to 20.7 bar	PX02K1-300G5T	PX02C1-300G5T	DP41-E, DP25B-E
0 to 500 psi	0 to 34.5 bar	PX02K1-500G5T	PX02C1-500G5T	DP41-E, DP25B-E
0 to 1000 psi	0 to 68.9 bar	PX02K1-1KG5T	PX02C1-1KG5T	DP41-E, DP25B-E
0 to 1500 psi	0 to 103 bar	PX02K1-1.5KG5T	PX02C1-1.5KG5T	DP41-E, DP25B-E
0 to 2000 psi	0 to 138 bar	PX02K1-2KG5T	PX02C1-2KG5T	DP41-E, DP25B-E
0 to 3500 psi	0 to 241 bar	PX02K1-3.5KG5T	PX02C1-3.5KG5T	DP41-E, DP25B-E
0 to 5000 psi	0 to 345 bar	PX02K1-5KG5T	PX02C1-5KG5T	DP41-E, DP25B-E
0 to 7500 psi	0 to 517 bar	PX02K1-7.5KG5T	PX02C1-7.5KG5T	DP41-E, DP25B-E
0 to 10,000 psi**	0 to 689 bar	PX02S1-10KG5T**	PX02S1-10KG5T**	DP41-E, DP25B-E*
0 to 20,000 psi**	0 to 1379 bar	PX02S1-20KG5T**	PX02S1-20KG5T**	DP41-E, DP25B-E*
0 to 30,000 psi**	0 to 2068 bar	PX02S1-30KG5T**	PX02S1-30KG5T**	DP41-E, DP25B-E*

Comes complete with 5-point NIST-traceable calibration.

† Visit us online for compatible meters.

* 4-digit meter, counts in increments of 10. ** $\frac{1}{4}$ HP tube fitting pressure port.

To order absolute pressure, replace "G" in model number with "A" and add **cost** to price.

To order sealed gage units, replace "G" in model number with "S" (no extra charge).

Ordering Examples: PX02K1-1KG5T, 1000 psi gage transducer with 0 to 5 V output, twist-lock 6 pin connector and $\frac{7}{16}$ -20 UNF female pressure connection. PT06F10-6S, mating connector (sold separately).

PX02C0-010G5T, 10 psi gage transducer with 0 to 5 V output, 3 m (10') cable and $\frac{1}{4}$ NPT male pressure connection.

METRIC MODELS

Models with G $\frac{1}{4}$ Female Pressure Connection, Cable or Connector and 5 V Output			
RANGE		MODEL NO.	COMPATIBLE METERS†
GAGE PRESSURE			
0 to 0.16 bar	0 to 2.3 psi	PXM02MD0-160BARG5T	DP41-S, DP25B-S
0 to 0.4 bar	0 to 5.8 psi	PXM02MD0-400BARG5T	DP41-S, DP25B-S
0 to 1 bar	0 to 15 psi	PXM02MD0-001BARG5T	DP41-S, DP25B-S
0 to 1.60 bar	0 to 23 psi	PXM02MD0-1.60BARG5T	DP41-S, DP25B-S
0 to 2.50 bar	0 to 58 psi	PXM02MD0-2.50BARG5T	DP41-S, DP25B-S
0 to 4 bar	0 to 87 psi	PXM02MD0-004BARG5T	DP41-S, DP25B-S
0 to 6 bar	0 to 145 psi	PXM02MD0-006BARG5T	DP41-S, DP25B-S
0 to 10 bar	0 to 232 psi	PXM02MD0-010BARG5T	DP41-S, DP25B-S
0 to 16 bar	0 to 363 psi	PXM02MD0-016BARG5T	DP41-S, DP25B-S
0 to 25 bar	0 to 580 psi	PXM02MD0-025BARG5T	DP41-S, DP25B-S
0 to 40 bar	0 to 870 psi	PXM02MD0-040BARG5T	DP41-S, DP25B-S
0 to 60 bar	0 to 1450 psi	PXM02MD0-060BARG5T	DP41-S, DP25B-S
0 to 100 bar	0 to 2321 psi	PXM02MD0-100BARG5T	DP41-S, DP25B-S
0 to 160 bar	0 to 3626 psi	PXM02MD0-160BARG5T	DP41-S, DP25B-S
0 to 250 bar	0 to 5802 psi	PXM02MD0-250BARG5T	DP41-S, DP25B-S
0 to 400 bar	0 to 8702 psi	PXM02MD0-400BARG5T	DP41-S, DP25B-S

Comes complete with 5-point NIST-traceable calibration. † Visit us online for compatible meters.

To order absolute pressure models, replace "G" in model number with "A" and add **cost** to price.

To order sealed gage models, replace "G" in model number with "S" (no extra charge).

To order female thread, see custom configurations below.

Ordering Examples: PXM02MD6-004BARG5T, 4 bar gage transducer with 0 to 5 V output, mini DIN connector and G $\frac{1}{4}$ female pressure connection. Mating connector included.

PXM02MD0-001BARA5T, 1 bar absolute transducer with 0 to 5 V output, 3 m (10') cable and G $\frac{1}{4}$ female pressure connection.



METRIC
PXM02MC6-010BARG5T
shown actual size.



VOLTAGE OUTPUT
PRESSURE TRANSDUCERS

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