

VERY-HIGH-ACCURACY MILLIVOLT OUTPUT PRESSURE TRANSDUCER

STANDARD AND METRIC MODELS

PX01/PXM01 Series

mV/V Output

0-10 to 0-30,000 psi-
Standard Models

0-700 mbar to 0-400 bar-
Metric Models

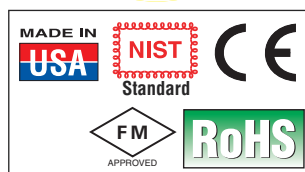
1 bar = 14.5 psi

1 kg/cm² = 14.22 psi

1 atmosphere = 14.7 psi = 29.93

inHg = 760.2 mmHg = 1.014 bar

Starts at
\$680



- ✓ 0.05% Linearity
- ✓ High Operating Temperature: 163°C (325°F)
- ✓ FM Approved Intrinsically Safe
- ✓ 3 mV/V Output
- ✓ All Stainless Steel Construction
- ✓ Shunt Calibration for Fast System Setup
- ✓ Hermetically Sealed Design for Harsh Environments (Not Gage Units)
- ✓ Internal Shunt for Easy System Checks

PX01/PXM01 are very-high-accuracy, 30-millivolt output industrial pressure transducer.

Their all stainless steel construction and hermetically sealed case make them suitable for harsh environments. An FM Approved Intrinsically Safe rating is standard. The PX01/PXM01 has a high operating range, a broad compensated range, and excellent temperature compensation that gives stable readings in harsh applications.

Available in Cable or Connector Styles

PX01K1-100GV, 7/16-20 UNF female connection, \$680, shown actual size.



PX01C1-100GV, G 1/4 male, \$700, shown actual size.

SPECIFICATIONS

mV/V Output

Excitation: 10 Vdc (15 Vdc max)

Output: 3 mV/V $\pm 0.25\%$

Input Resistance: 350 $\pm 10 \Omega$

Output Resistance: 350 $\pm 10 \Omega$

Zero Balance: 1.0% FS

Linearity: $\pm 0.05\%$ FS

Hysteresis: $\pm 0.05\%$ FS

Repeatability: $\pm 0.05\%$ FS

Agency Approvals: Standard FM 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 gages 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: 0.0015% rdg/°F

Zero: 0.0015% FS/°F

Proof Pressure: 150% of rated pressure

Burst Pressure: 300% of rated pressure

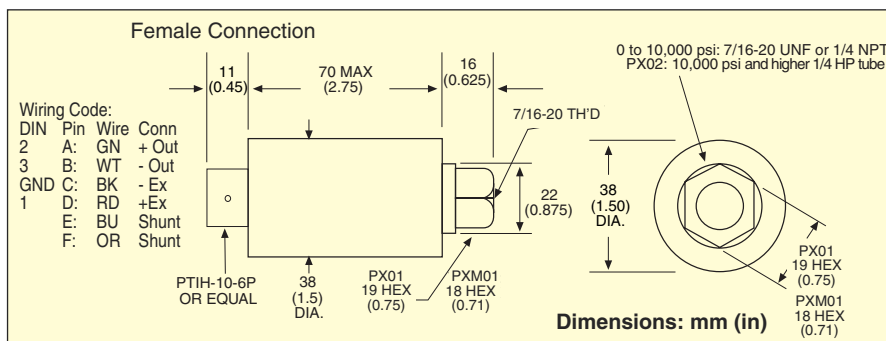
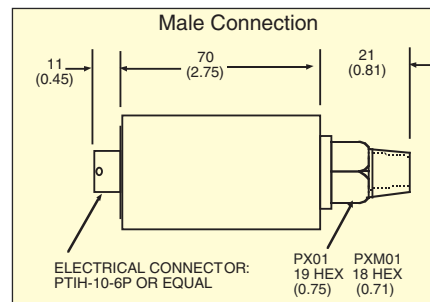
Wetted Parts: 17-4 PH SS

Pressure Port: See custom configurations

Electrical Connection: See custom configurations

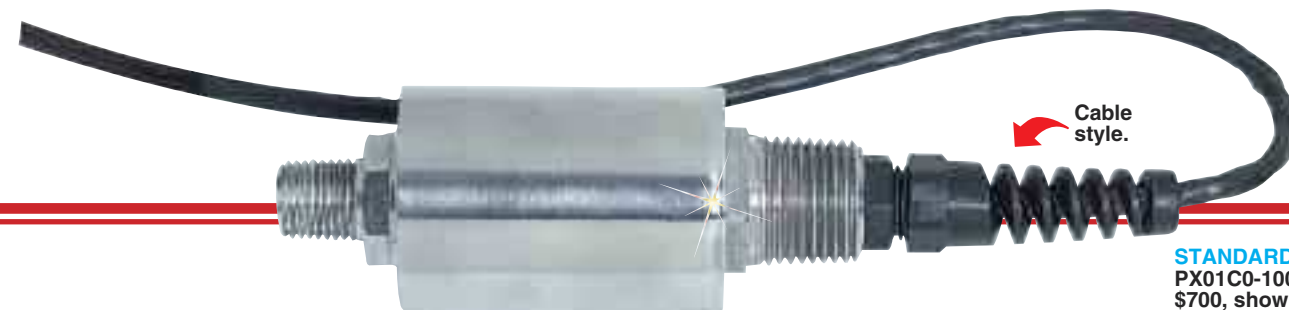
Mating Connector (Style 1): PT06F10-6S (sold separately)

Weight: 255 g (9 oz)



MILLIVOLT OUTPUT
PRESSURE TRANSDUCERS

B



STANDARD
PX01C0-100GV, 1/4 NPT male,
\$700, shown smaller than
actual size.

STANDARD CUSTOM CONFIGURATIONS

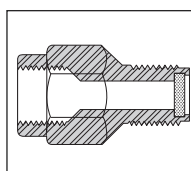
PX01 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Models < 10,000 psi: C = 1/4-18 NPT-M +\$20 D = 1/4-18 NPT-F, no charge J = 7/16-20 UNF-M +\$20 K = 7/16-20 UNF-F, no charge Models ≥10,000 psi: S = 1/4 HP tube fitting no charge			002*	A, G, S	Base Price PX01: V = mV/V output \$680: 50 to 7500 psig \$750: below 50 psig, above 7500 psig Add \$50 for absolute pressure ranges	OL = Overload stops where available +\$65 OX = Oxygen cleaning +\$75 plus 2 weeks See page B-12 for additional options, including extended temperature ranges.
0 = 3 m (10') cable (std) 1 = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S \$26.50 6 = mini DIN connector* (*no shunt cal) (no charge)			005*	A, G, S		
			010	A, G, S		
			015	A, G, S		
			020	A, G, S		
			025	A, G, S		
			050	A, G, S		
			075	A, G, S		
			100	A, G, S		
			150	A, G, S		
			200	A, G, S		
			250	A, G, S		
			300	A, G, S		
			500	A, G, S		
			750	A, G, S		
			1K	A, G, S		
			1.5K	A, G, S		
			2K	A, G, S		
			3K	A, G, S		
			3.5K	A, G, S		
			5K	A, G, S		
			7.5K	A, G, S		
			10K	A, G, S		
			20K	A, G, S		
			30K	A, G, S		

* 2 and 5 psi ranges available only with amplified output.

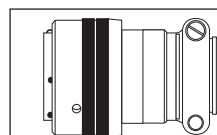
To order a custom configuration:

1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units
5. Select output
6. Select options and agency approvals

Ordering Examples: PX01C1-100GV, 100 psi gage pressure transducer with 1/4-18 NPT male fitting, PTIH-10-6P connector and mV/V output, \$680 + 20 = **\$700**. PT06F10-6S, mating connector (sold separately), **\$26.50**.



**G1/4 Pressure
Snubbers: \$12.75**
PS-4G-MG = Gas
PS-4E-MG = Lt Oil
PS-4D-MG = Dense
 Liquid



Mating
Connector
PT06F10-6S
\$26.50

METRIC CUSTOM CONFIGURATIONS

PXM01 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G1/8 B Male +\$20 MB = G1/8 B Female no charge MC = G1/8 B Male +\$20 MD = G1/8 B Female no charge			1.0	A, G, S	V = mV/V Base price PXM01 \$699 ≥2.5 bar \$769 <2.5 bar	OX = Cleaned for oxygen service OL = Overload stops ()m = Optional cable length in meters
0 = 3 m (10') cable (std) \$15/m over 3 m (10') 1 = PTIH-10-6P connector (or equal, no charge) 6 = mini DIN connector* (*no shunt cal) (no charge)			1.6	A, G, S		
			2.5	A, G, S		
			4.0	A, G, S		
			6.0	A, G, S		
			10	A, G, S		
			16	A, G, S		
			25	A, G, S		
			40	A, G, S		
			60	A, G, S		
			100	A, G, S		
			160	A, G, S		
			250	A, G, S		
			400	A, G, S		

**See page B-12 for additional options including
 extended compensated temperatures.**

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 and agency approvals

Ordering Examples: PXM01MB0-010BARSV, 10 bar sealed gage pressure transducer with G1/8 B female connection and 3 m (10') cable termination, **\$699**.

PXM01MD1-010BARAV, 10 bar absolute pressure transducer with G1/4 B female connection and twist-lock connector, **\$749**.
 PT06F10-6S, mating connector (sold separately), **\$26.50**.

STANDARD MODELS

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

RANGE		1/16"-20-F MODEL	PRICE	1/4 NPT-M MODEL	PRICE	COMPATIBLE METERS†
Connector Style – Absolute Pressure (All Ranges Available in Absolute Pressure)						
0 to 15 psi	0 to 1.0 bar	PX01K1-015AV	\$800	PX01C1-015AV	\$820	DP41-S, DP25B-S
0 to 20 psi	0 to 1.4 bar	PX01K1-020AV	800	PX01C1-020AV	820	DP41-S, DP25B-S
0 to 25 psi	0 to 1.7 bar	PX01K1-025AV	800	PX01C1-025AV	820	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	PX01K1-050AV	730	PX01C1-050AV	750	DP41-S, DP25B-S
Connector Style – Gage Pressure (All Ranges Also Available in Sealed Gage Pressure)						
0 to 10 psi	0 to 0.69 bar	PX01K1-010GV	\$750	PX01C1-010GV	\$770	DP41-S, DP25B-S
0 to 15 psi	0 to 1.0 bar	PX01K1-015GV	750	PX01C1-015GV	770	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	PX01K1-050GV	680	PX01C1-050GV	700	DP41-S, DP25B-S
0 to 75 psi	0 to 5.2 bar	PX01K1-075GV	680	PX01C1-075GV	700	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX01K1-100GV	680	PX01C1-100GV	700	DP41-S, DP25B-S
0 to 200 psi	0 to 13.8 bar	PX01K1-200GV	680	PX01C1-200GV	700	DP41-S, DP25B-S
0 to 300 psi	0 to 20.7 bar	PX01K1-300GV	680	PX01C1-300GV	700	DP41-S, DP25B-S
0 to 500 psi	0 to 34.5 bar	PX01K1-500GV	680	PX01C1-500GV	700	DP41-S, DP25B-S
0 to 1000 psi	0 to 68.9 bar	PX01K1-1KGV	680	PX01C1-1KGV	700	DP41-S, DP25B-S
0 to 1500 psi	0 to 103 bar	PX01K1-1.5KGV	680	PX01C1-1.5KGV	700	DP41-S, DP25B-S
0 to 2000 psi	0 to 138 bar	PX01K1-2KGV	680	PX01C1-2KGV	700	DP41-S, DP25B-S
0 to 3500 psi	0 to 241 bar	PX01K1-3.5KGV	680	PX01C1-3.5KGV	700	DP41-S, DP25B-S
0 to 5000 psi	0 to 345 bar	PX01K1-5KGV	680	PX01C1-5KGV	700	DP41-S, DP25B-S
0 to 7500 psi	0 to 517 bar	PX01K1-7.5KGV	680	PX01C1-7.5KGV	700	DP41-S, DP25B-S
0 to 10,000** psi	0 to 689 bar	PX01S1-10KGV	750	PX01S1-10KGV	750	DP41-S, DP25B-S*
0 to 20,000** psi	0 to 1379 bar	PX01S1-20KGV	750	PX01S1-20KGV	750	DP41-S, DP25B-S*
0 to 30,000** psi	0 to 2068 bar	PX01S1-30KGV	750	PX01S1-30KGV	750	DP41-S, DP25B-S*

Comes complete with 5-point calibration. Metric ranges available – PXM01 Series, visit newportUS.com/pxm01-mv. * 4-digit meter. ** 1/4 HP tube fitting. † See section D for compatible meters.

To order absolute pressure, replace “G” in model number with “A”, add \$50. To order sealed gage pressure, replace “G” in model number with “S” (no extra charge).

Ordering Examples: PX01K1-500SV, 500 psi sealed gage pressure transducer with mV/V output, 1/16"-20 female fitting and PTIH-10-6P connector, \$680. PT06F10-6S, mating connector (sold separately), \$26.50.

PX01C0-100AV, 100 psi absolute pressure transducer with mV/V output, 1/4 NPT male fitting and 3 m (10') cable, \$750.



METRIC MODELS

Models with G 1/4 Female Pressure Connection, Cable or Connector and mV/V Output

RANGE		MODEL NO.	PRICE	COMPATIBLE METERS*
GAGE PRESSURE				
0 to 1 bar	0 to 15 psi	PXM01MD[*]-001BARGV	\$769	DP41-S, DP25B-S
0 to 1.60 bar	0 to 23 psi	PXM01MD[*]-1.60BARGV	769	DP41-S, DP25B-S
0 to 2.50 bar	0 to 36 psi	PXM01MD[*]-2.50BARGV	699	DP41-S, DP25B-S
0 to 4 bar	0 to 58 psi	PXM01MD[*]-004BARGV	699	DP41-S, DP25B-S
0 to 6 bar	0 to 87 psi	PXM01MD[*]-006BARGV	699	DP41-S, DP25B-S
0 to 10 bar	0 to 145 psi	PXM01MD[*]-010BARGV	699	DP41-S, DP25B-S
0 to 16 bar	0 to 232 psi	PXM01MD[*]-016BARGV	699	DP41-S, DP25B-S
0 to 25 bar	0 to 363 psi	PXM01MD[*]-025BARGV	699	DP41-S, DP25B-S
0 to 40 bar	0 to 580 psi	PXM01MD[*]-040BARGV	699	DP41-S, DP25B-S
0 to 60 bar	0 to 870 psi	PXM01MD[*]-060BARGV	699	DP41-S, DP25B-S
0 to 100 bar	0 to 1450 psi	PXM01MD[*]-100BARGV	699	DP41-S, DP25B-S
0 to 160 bar	0 to 2321 psi	PXM01MD[*]-160BARGV	699	DP41-S, DP25B-S
0 to 250 bar	0 to 3626 psi	PXM01MD[*]-250BARGV	699	DP41-S, DP25B-S
0 to 400 bar	0 to 5802 psi	PXM01MD[*]-400BARGV	699	DP41-S, DP25B-S

Comes complete with 5-point NIST traceable calibration. * See section D for compatible meters.

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

To order absolute pressure models, replace “G” in model number with “A” and add \$50.

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

To order female thread, see Custom Configurations page B-63.

Ordering Examples: PXM01MD6-60BARSV, 60 bar sealed gage pressure transducer with mV/V output, G 1/4 female fitting and mini DIN connector, \$699. Mating connector included.

PXM01MC0-010BARAV, 10 bar absolute pressure transducer with mV/V output, G 1/4 male fitting and 3 m (10') cable with 1/2 NPT conduit fitting, \$699 + 50 = \$749.

