

HEAVY-DUTY INDUSTRIAL TRANSMITTER

STANDARD AND METRIC MODELS

PX41/PXM41 Series with Unique Dual 1/2 and 1/4 NPT Fitting 4 to 20 mA Output 0-10 to 0-30,000 psi-Standard Models 0-0.7 to 0-2000 bar-Metric Models

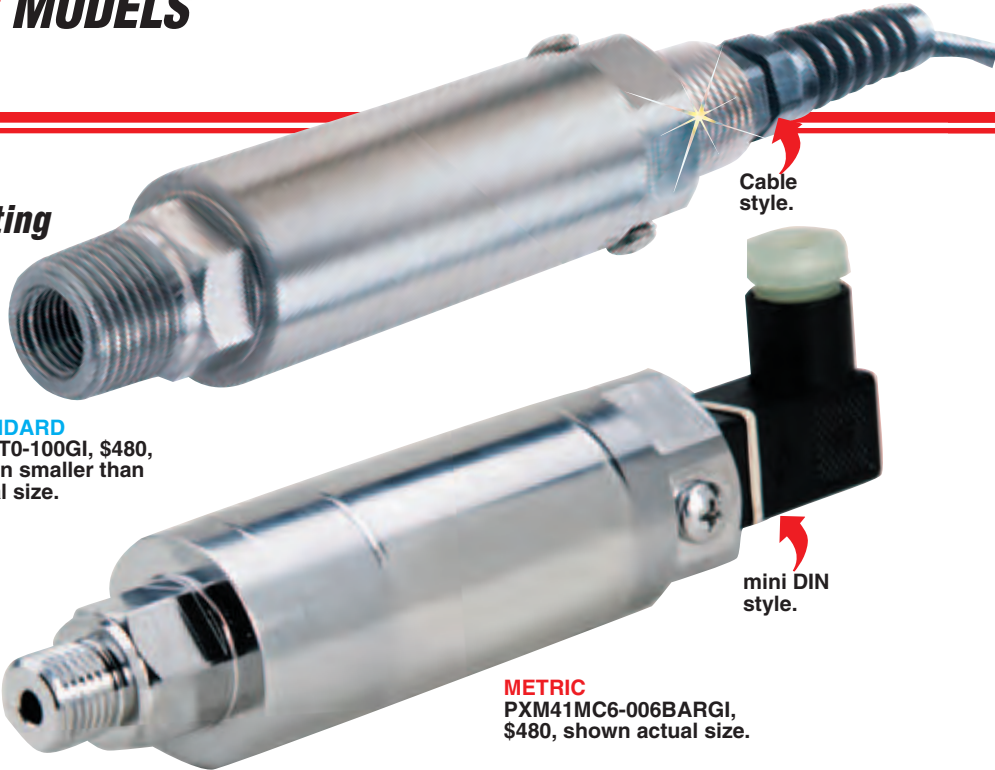
1 bar = 14.5 psi
1 kg/cm² = 14.22 psi
1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

Starts at
\$480



- ✓ FM Intrinsically Safe (Cable Only, Style S and A Units)
- ✓ FM Approved for Hazardous Locations Optional on Select Models
- ✓ MSHA Approved Version Available
- ✓ All Stainless Steel Construction
- ✓ Sealed SS Case for Harsh Environments

OMEGA's PX41/PXM41 Series consists of high-accuracy, low-cost pressure transmitters. Their sealed, all stainless steel construction makes them suitable for the harshest environments. They are



STANDARD
PX41T0-100GI, \$480, shown smaller than actual size.

METRIC
PXM41MC6-006BARGI, \$480, shown actual size.

available in gage, absolute, or sealed gage models. Ten feet of PVC insulated shielded cable is standard, or a twist-lock style connector is also available. A wide selection of amplified voltage and current outputs makes the PX41/PXM41 a truly versatile family of industrial transmitters.

SPECIFICATIONS 4 to 20 mA Output

Excitation: 10 to 40 Vdc
Output: 4 to 20 mA (±10% adj)
Zero Balance: 4 mA +10% -2% adj

Agency Approvals:

Must be specified at time of order

FM Intrinsically Safe: IS/I.II.III/1/CDEFG (standard on all models)

FM Hazardous Location:

S/I/1/ABCD optional. Available on absolute pressure and sealed gage units with cable termination. Must be specified at time of order.

MSHA: Mine Safety and Health Administration—optional. Must be specified at time of order.

Accuracy: 0.25% linearity, hysteresis and repeatability combined

Sensing Element: 4-active-arm bridge with hermetically sealed thick-film strain gages

Operating Temp Range: -47 to 121°C (-50 to 250°F)

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

Thermal Effects:

Span: 0.003% rdg/°F

Zero: 0.005% FSO/F

Proof Pressure: 150% of rated pressure

Burst Pressure: 300% of rated pressure

Wetted Parts: 17-4 PH and 316 SS

Pressure Port: <10,000 psi 1/2-14 NPT external and 1/4-18 NPT internal

10,000 F250C autoclave 3/8-18 thread

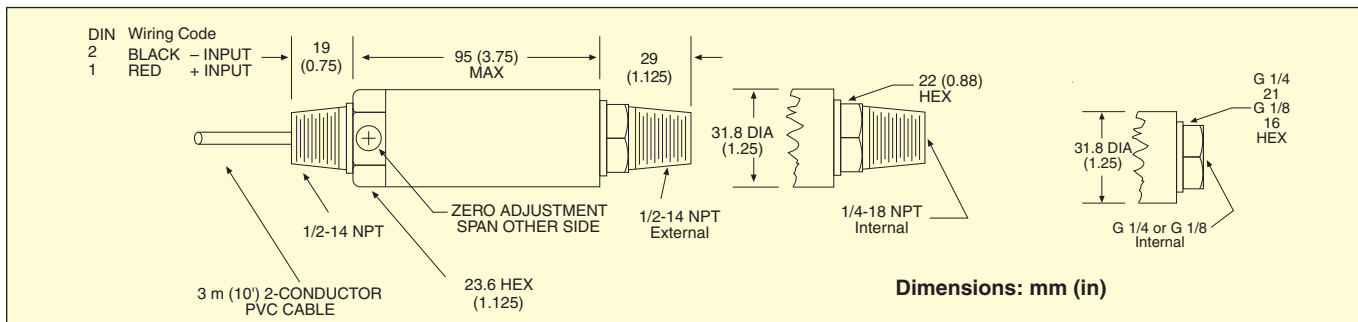
Electrical Connection: Shown: 3 m (10'), 2-conductor, PVC insulated cable.

Also available: PTIH-10-6P connector.

Mating connector (sold separately)

PT06F10-6S

Units with FM option do not have external zero or span.



HEAVY-DUTY INDUSTRIAL TRANSMITTER



CURRENT OUTPUT
PRESSURE TRANSDUCERS
B

STANDARD CUSTOM CONFIGURATIONS

PX41 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
C = 1/4-18 NPT-M +\$20			010	A,G,S	Base Price \$480 ≥50 psi and greater \$570 <50 psi	FM FM Hazardous Location +\$150 4 to 20 mA output "S" or "A" pres. only; no zero or span adjustments
D = 1/4-18 NPT-F, no charge			015	A,G,S		
T = Dual 1/2-14 NPT external 1/4-18 NPT internal			020	A,G,S	5T = 0 to 5 Vdc output add \$35 all ranges	MSHA Mine Safety and Health Admin. 0.5 to 5.5 V or 4 to 20 mA output, \$50
K = 7/16-20 UNF-F			025	A,G,S		
J = 7/16-20 UNF-M +\$20			030	A,G,S	10V = 0.5 to 10.5 Vdc output n/c all ranges	OX Cleaned for Oxygen use +\$75 +2 weeks
S = 1/4 HP Tube Fitting (≥10,000 psi ranges)			050	A,G,S		
			075	A,G,S	10T = 0 to 10 Vdc output add \$35 all ranges	()ft = Optional cable length in feet
			100	A,G,S		
			200	A,G,S	I = 4 to 20 mA output add \$30 all ranges	
			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		
			2.5K	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		
			15K [†]	A,G,S		
			20K [†]	A,G,S		
			30K [†]	A,G,S		
See page B-12 for additional options, including extended compensated temperatures.						

[†] = Supplied with 1/4" HP tube fitting.

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: PX41T1-100GI, 100 psi gage pressure transmitter with PTIH-10-6P connector, and 4 to 20 mA output, \$480.

PT06F10-6S, mating connector (sold separately), \$26.50. PX41T0-1KSI-FM, 1000 psi sealed gage pressure transmitter with 3 m (10') cable, 4 to 20 mA output and FM Approval for Hazardous Locations, \$480 + 150 = \$630.

METRIC CUSTOM CONFIGURATIONS

PXM41 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G1/8B Male +\$20			1.0	A, G, S	Base price PXM41 \$480 ≥2.5 bar \$530 <2.5 bar	MSHA = Mine Safety and Health Admin, \$50 OX = Cleaned for oxygen use
MB = G1/8B Female no charge			1.6	A, G, S		
MC = G1/8B Male +\$20			2.5	A, G, S	I = 4 to 20 mA	()m = Optional cable length in meters
MD = G1/8B Female no charge			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: PXM41MB0-010BARS1, 10 bar sealed gage pressure transmitter with G1/8B female connection and 3 m cable termination, \$480.

PXM41MD1-010BARAI, 10 bar absolute pressure transducer with G1/8B female connection and twist-lock connector, \$480. PTS06A-10-6S, mating connector (sold separately), \$26.50.

STANDARD MODELS **MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)

RANGE		MODEL NO.	PRICE	COMPATIBLE METERS**
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)				
0 to 15 psi	0 to 1.0 bar	PX41T[*]-015AI	\$530	DP41-E, DP25B-E, DP24-E
0 to 20 psi	0 to 1.4 bar	PX41T[*]-020AI	530	DP41-E, DP25B-E, DP24-E
0 to 30 psi	0 to 2.1 bar	PX41T[*]-030AI	530	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX41T[*]-050AI	480	DP41-E, DP25B-E, DP24-E
GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)				
0 to 10 psi	0 to 0.69 bar	PX41T[*]-010GI	\$530	DP41-E, DP25B-E, DP24-E
0 to 15 psi	0 to 1.0 bar	PX41T[*]-015GI	530	DP41-E, DP25B-E, DP24-E
0 to 20 psi	0 to 1.4 bar	PX41T[*]-020GI	530	DP41-E, DP25B-E, DP24-E
0 to 30 psi	0 to 2.1 bar	PX41T[*]-030GI	530	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX41T[*]-050GI	480	DP41-E, DP25B-E, DP24-E
0 to 75 psi	0 to 5.2 bar	PX41T[*]-075GI	480	DP41-E, DP25B-E, DP24-E
0 to 100 psi	0 to 6.9 bar	PX41T[*]-100GI	480	DP41-E, DP25B-E, DP24-E
0 to 200 psi	0 to 13.8 bar	PX41T[*]-200GI	480	DP41-E, DP25B-E, DP24-E
0 to 300 psi	0 to 20.7 bar	PX41T[*]-300GI	480	DP41-E, DP25B-E, DP24-E
0 to 500 psi	0 to 34.5 bar	PX41T[*]-500GI	480	DP41-E, DP25B-E, DP24-E
0 to 750 psi	0 to 51.7 bar	PX41T[*]-750GI	480	DP41-E, DP25B-E, DP24-E
0 to 1000 psi	0 to 68.9 bar	PX41T[*]-1KGI	480	DP41-E, DP25B-E, DP24-E
0 to 1500 psi	0 to 103 bar	PX41T[*]-1.5KGI	480	DP41-E, DP25B-E, DP24-E
0 to 2000 psi	0 to 138 bar	PX41T[*]-2KGI	480	DP41-E, DP25B-E, DP24-E
0 to 3500 psi	0 to 241 bar	PX41T[*]-3.5KGI	480	DP41-E, DP25B-E, DP24-E
0 to 5000 psi	0 to 345 bar	PX41T[*]-5KGI	480	DP41-E, DP25B-E, DP24-E
0 to 7500 psi	0 to 517 bar	PX41T[*]-7.5KGI	480	DP41-E, DP25B-E, DP24-E
0 to 10,000 psi	0 to 689 bar	PX41S[*]-10KGI	480	DP41-E, DP25B-E, DP24-E†
0 to 20,000 psi	0 to 1379 bar	PX41S[*]-20KGI	480	DP41-E, DP25B-E†, DP24-E†
0 to 30,000 psi	0 to 2068 bar	PX41S[*]-30KGI	480	DP41-E, DP25B-E†, DP24-E†



¼ NPT Pressure Snubbers: \$12.75
 PS-4G = Gas
 PS-4E = Lt Oil
 PS-4D = Dense Lq

¾ Pressure Snubbers: \$12.75
 PS-4G-MG = Gas
 PS-4E-MG = Lt Oil
 PS-4D-MG = Dense Liquid

Comes complete with 5-point NIST traceable calibration.
 [*] = Insert "0" for 3 m (10') cable, "1" for twist-lock connector, or "6" for mini DIN connector.
 † 4-digit meter, counts in increments of 10. ** See section D for compatible meters.
Ordering Examples: PX41S0-10KSI, 10,000 psi sealed gage transmitter with 3 m (10') cable, \$480.
 PX41T0-5KSI-FM, 5000 psi sealed gage pressure transmitter with 3 m (10') cable and FM for Hazardous Locations rating, \$480 + 150 = \$630.
 PX41T0-015AI, 15 psi absolute pressure transmitter with 3 m (10') cable, \$530.

METRIC MODELS

To Order (Specify Model Number)

Models with G ¼ Male Pressure Connection, Cable or Connector and 4 to 20 mA Output				
RANGE		MODEL NO.	PRICE	COMPATIBLE METERS**
GAGE PRESSURE				
0 to 1 bar	0 to 15 psi	PXM41MC[*]-001BARGI	\$530	iSeries, DP41-E, DP25B-E
0 to 1.60 bar	0 to 23 psi	PXM41MC[*]-1.60BARGI	530	iSeries, DP41-E, DP25B-E
0 to 2.50 bar	0 to 36 psi	PXM41MC[*]-2.50BARGI	480	iSeries, DP41-E, DP25B-E
0 to 4 bar	0 to 58 psi	PXM41MC[*]-004BARGI	480	iSeries, DP41-E, DP25B-E
0 to 6 bar	0 to 87 psi	PXM41MC[*]-006BARGI	480	iSeries, DP41-E, DP25B-E
0 to 10 bar	0 to 145 psi	PXM41MC[*]-010BARGI	480	iSeries, DP41-E, DP25B-E
0 to 16 bar	0 to 232 psi	PXM41MC[*]-016BARGI	480	iSeries, DP41-E, DP25B-E
0 to 25 bar	0 to 363 psi	PXM41MC[*]-025BARGI	480	iSeries, DP41-E, DP25B-E
0 to 40 bar	0 to 580 psi	PXM41MC[*]-040BARGI	480	iSeries, DP41-E, DP25B-E
0 to 60 bar	0 to 870 psi	PXM41MC[*]-060BARGI	480	iSeries, DP41-E, DP25B-E
0 to 100 bar	0 to 1450 psi	PXM41MC[*]-100BARGI	480	iSeries, DP41-E, DP25B-E
0 to 160 bar	0 to 2321 psi	PXM41MC[*]-160BARGI	480	iSeries, DP41-E, DP25B-E
0 to 250 bar	0 to 3626 psi	PXM41MC[*]-250BARGI	480	iSeries, DP41-E, DP25B-E
0 to 400 bar	0 to 5802 psi	PXM41MC[*]-400BARGI	480	iSeries, DP41-E, DP25B-E

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, or "6" for mini-DIN connector.
Ordering Examples: PXM41MC6-25BARGI, 25 bar gage pressure transducer with G ¼ male thread, mini DIN connector and 4 to 20 mA output, \$480.
 PXM41MD0-1.60BARAI, 1.6 bar absolute pressure transducer with G ¼ internal thread, 3 m (10') cable and 4 to 20 mA output, \$530.
 To order an FM Approved for Hazardous Locations version, add suffix "-FM" to model number and \$150. To order sealed gage pressure models, replace "G" in model number with "S" (no extra charge).
 To order absolute pressure models, replace "G" in model number with "A" (no extra charge).