

HEAVY-DUTY VOLTAGE OUTPUT PRESSURE TRANSDUCER

STANDARD AND METRIC MODELS

PX41/PXM41 Series

0.5 to 5.5 Vdc Output
0-10 to 0-30,000 psi-Standard Models
0-1 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
\$450



- ✓ FM Approved Intrinsically Safe Standard
- ✓ Special MSHA-Approved Model Available
- ✓ All Stainless Steel Body
- ✓ Heavy-Duty Construction for Harsh Environments
- ✓ Available in Gage, Sealed Gage, and Absolute Pressure Models

OMEGA's PX41/PXM41 are high-accuracy, rugged, low-cost, 5V output industrial pressure transducers. All stainless steel construction makes them suitable for the harshest environments. They are available in gage, absolute, or sealed models. Ten feet of 4-conductor shielded cable is standard. A twist-lock-



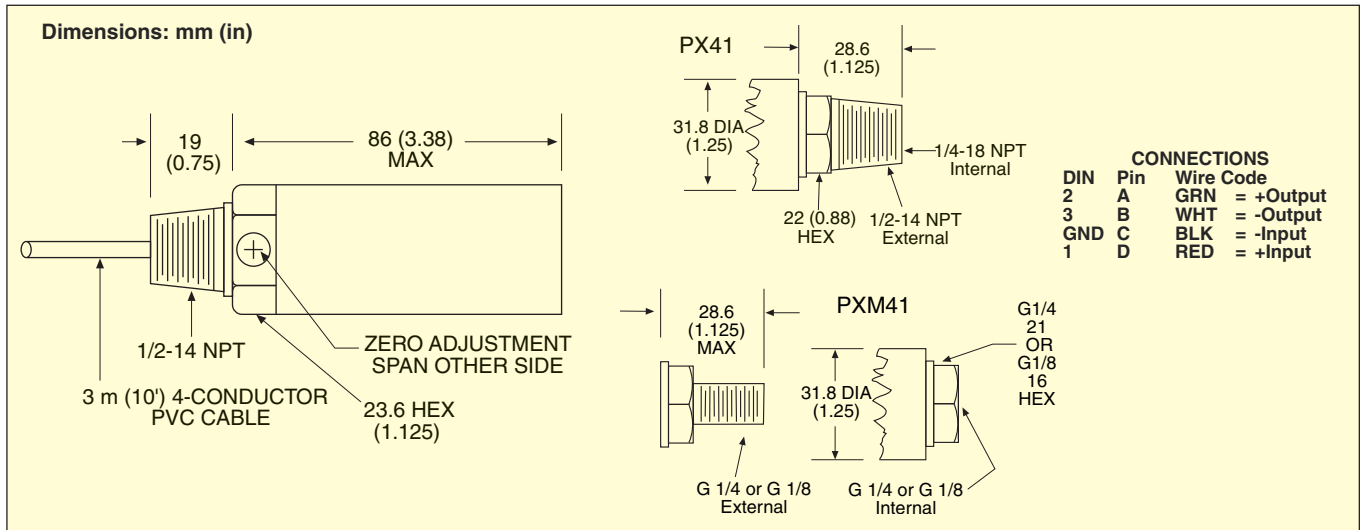
PX41T0-100G5V, \$450, shown actual size.

style connector or DIN connector are available. A wide model selection makes this a truly versatile family of industrial transducers.

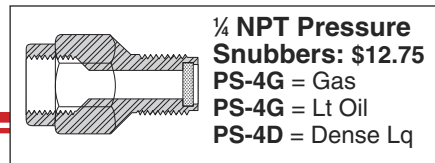
SPECIFICATIONS

- Excitation:** 10 to 40 Vdc
- Output:** 0.5 to 5.5 Vdc
- Zero Balance:** 0.5V adj ±10% FSO
- AGENCY APPROVAL**
- FM Intrinsically Safe:** IS/I.II.III/1/CDEFG standard on all models
- MSHA (Optional):** Mine Safety and Health Administration (must be specified at time of order)
- Accuracy:** 0.25% FS linearity and hysteresis combined
- Operational Temp Range:** -47 to 121°C (-50 to 250°F)
- Compensated Temp Range:** 16 to 71°C (60 to 160°F)
- Thermal Effects:**
 - Span:** 0.0054% of rdg/°F
 - Zero:** 0.008% of FSO/°F
- Proof Pressure:** 150% of rated pressure
- Burst Pressure:** 300% of rated pressure
- Wetted Parts:** 17-4 PH stainless steel
- Pressure Port:**
 - <10,000 psi: See dimensional drawings below
 - ≥10,000 psi: 3/16"-18, 1/4" HP tube
- Electrical Connection:** 3 m (10') 4-conductor PVC cable, twist-lock connector or DIN connector
- † Refer to custom configurations chart on page B-107 for ordering MSHA-approved units.

VOLTAGE OUTPUT PRESSURE TRANSDUCERS
B



HEAVY-DUTY INDUSTRIAL TRANSDUCER



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	S,G,A	5V = 0.5 to 5.5 Vdc output Base Price	FM FM Hazardous Location +\$150 4 to 20 mA output "S" or "A" pres. only
D = 1/4-18 NPT-F, no charge			015	S,G,A		
T = Dual 1/2-14 NPT external 1/4-18 NPT internal			020	S,G,A	Base Price PX41 \$450: ≥ 50 psi \$500: < 50 psi	MSHA Mine Safety and Health Admin. 0.5 to 5.5V or 4 to 20 mA output, \$50
K = 7/16-20 UNF-F			025	S,G,A		
J = 7/16-20 UNF-M +\$20			030	S,G,A	5T = 0 to 5 Vdc output add \$35 all ranges	OX Cleaned for Oxygen use +\$75 plus 2 weeks
S = 1/4 HP tube fitting (≥10,000 psi ranges)			050	S,G,A		
			075	S,G,A	10V = 0.5 to 10.5 Vdc output n/c all ranges	
			100	S,G,A		
			200	S,G,A	10T = 0 to 10 Vdc output add \$35 all ranges	
			300	S,G,A		
			500	S,G,A	I = 4 to 20 mA output add \$30 all ranges	
			750	S,G,A		
			1K	S,G,A		
			1.5K	S,G,A		
			2K	S,G,A		
			2.5K	S,G,A		
			3K	S,G,A		
			3.5K	S,G,A		
			5K	S,G,A		
			7.5K	S,G,A		
			10K†	S,G,A		
			15K†	S,G,A		
			20K†	S,G,A		
			30K†	S,G,A		

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

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

Ordering Examples: **PX41T1-100GI**, 100 psi gage pressure transmitter with PTIH-10-6P connector and 4 to 20 mA output, \$450 + 30 = **\$480**. **PT06F10-6S**, mating connector (sold separately), **\$26.50**.

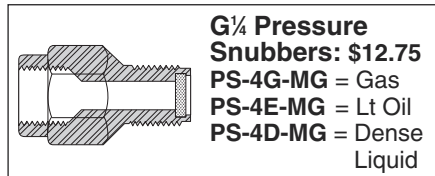
PX41T0-1KSI-FM, 1000 psi sealed gage pressure transmitter with 3 m (10') cable, 4 to 20 mA output and FM approval for use in hazardous locations, \$450 + 30 + 150 = **\$630**.

PX41T0-015A10V, 15 psi absolute pressure transducer with 3 m (10') cable and 0.5 to 10.5 Vdc output, **\$500**.

PX41T0-30K5V, 30,000 psi sealed gage pressure transducer with 3 m (10') cable and 0.5 to 5.5 Vdc output, **\$450**.

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



METRIC CUSTOM CONFIGURATIONS

PXM41 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G 1/8 B Male +\$20			1.0	S,G,A	5V = 0.5 to 5.5 Vdc output Base Price	FM FM Hazardous Location +\$150 4 to 20 mA output "S" or "A" pres. only
MB = G 1/8 B Female no charge			1.6	S,G,A		
MC = G 1/4 B Male +\$20			2.5	S,G,A	Base price PXM41 \$450: ≥2.5 bar \$500: <2.5 bar	MSHA Mine Safety and Health Admin. 0.5 to 5.5V or 4 to 20 mA output, \$50
MD = G 1/4 B Female no charge			4.0	S,G,A		
			6.0	S,G,A	5T = 0 to 5 Vdc output add \$35 all ranges	
			10	S,G,A		
			16	S,G,A	10V = 0.5 to 10.5 Vdc output n/c all ranges	
			25	S,G,A		
			40	S,G,A	10T = 0 to 10 Vdc output add \$35 all ranges	
			60	S,G,A		
			100	S,G,A	I = 4 to 20 mA output add \$30 all ranges	
			160	S,G,A		
			250	S,G,A		
			400	S,G,A		

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

Ordering Examples: **PXM41MB0-010BARSV**, 10 bar sealed gage pressure transducer with G 1/8 B female connection and 3 m (10') cable termination, **\$450**.

PXM41MD1-010BARAV, 10 bar absolute pressure transducer with G 1/8 B female connection and twist-lock connector, **\$450**. **PTS06A-10-6S**, mating connector (sold separately), **\$26.50**.

STANDARD MODELS

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODELS WITH DUAL 1/2 NPT EXTERNAL/ 1/4 NPT INTERNAL PRESSURE CONNECTION

RANGE	MODEL NO.	PRICE	COMPATIBLE METERS**
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)			
0 to 15 psi	0 to 1.0 bar	PX41T0-015A5V	\$500
0 to 20 psi	0 to 1.4 bar	PX41T0-020A5V	500
0 to 30 psi	0 to 2.1 bar	PX41T0-030A5V	500
0 to 50 psi	0 to 3.4 bar	PX41T0-050A5V	450

GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)

0 to 10 psi	0 to 0.69 bar	PX41T0-010G5V	\$500
0 to 15 psi	0 to 1.0 bar	PX41T0-015G5V	500
0 to 20 psi	0 to 1.4 bar	PX41T0-020G5V	500
0 to 30 psi	0 to 2.1 bar	PX41T0-030G5V	500
0 to 50 psi	0 to 3.4 bar	PX41T0-050G5V	450
0 to 75 psi	0 to 5.2 bar	PX41T0-075G5V	450
0 to 100 psi	0 to 6.9 bar	PX41T0-100G5V	450
0 to 200 psi	0 to 13.8 bar	PX41T0-200G5V	450
0 to 300 psi	0 to 20.7 bar	PX41T0-300G5V	450
0 to 500 psi	0 to 34.5 bar	PX41T0-500G5V	450
0 to 1000 psi	0 to 68.9 bar	PX41T0-1KG5V	450
0 to 2000 psi	0 to 138 bar	PX41T0-2KG5V	450
0 to 2500 psi	0 to 172 bar	PX41T0-2.5KG5V	450
0 to 3500 psi	0 to 241 bar	PX41T0-3.5KG5V	450
0 to 5000 psi	0 to 345 bar	PX41T0-5KG5V	450
0 to 10,000 psi	0 to 689 bar	PX41S0-10KG5V†	450
0 to 20,000 psi	0 to 1379 bar	PX41S0-20KG5V†	450
0 to 30,000 psi	0 to 2068 bar	PX41S0-30KG5V†	450

Comes complete with 5-point NIST traceable calibration.

† 1/4" HP tube fitting. * 4-digit meter, counts in increments of 10. ** See section D for compatible meters.

3 m (10') cable standard. To order with PTIH-10-6P twist-lock connector, change model number from "PX41T0" (or "PX41S0" above 5k psi) to "PX41T1" or to order with mini DIN connector, change model number to "PX41T6". No extra charge.

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.

Ordering Examples: PX41T0-5KG5V, 5000 psi gage pressure transducer with 0.5 to 5.5 Vdc output, \$450. PX41T0-015A5V, 15 psi absolute pressure transducer with 0.5 to 5.5 Vdc output, \$500.

METRIC MODELS

MODELS WITH G1/4 MALE PRESSURE CONNECTION

RANGE	MODEL NO.	PRICE	COMPATIBLE METERS**
GAGE PRESSURE			
0 to 1 bar	0 to 15 psi	PXM41MC0-001BARG5V	\$500
0 to 1.60 bar	0 to 23 psi	PXM41MC0-1.60BARG5V	500
0 to 2.50 bar	0 to 36 psi	PXM41MC0-2.50BARG5V	450
0 to 4 bar	0 to 58 psi	PXM41MC0-004BARG5V	450
0 to 6 bar	0 to 87 psi	PXM41MC0-006BARG5V	450
0 to 10 bar	0 to 145 psi	PXM41MC0-010BARG5V	450
0 to 16 bar	0 to 232 psi	PXM41MC0-016BARG5V	450
0 to 25 bar	0 to 363 psi	PXM41MC0-025BARG5V	450
0 to 40 bar	0 to 580 psi	PXM41MC0-040BARG5V	450
0 to 60 bar	0 to 870 psi	PXM41MC0-060BARG5V	450
0 to 100 bar	0 to 1450 psi	PXM41MC0-100BARG5V	450
0 to 160 bar	0 to 2321 psi	PXM41MC0-160BARG5V	450
0 to 250 bar	0 to 3626 psi	PXM41MC0-250BARG5V	450
0 to 400 bar	0 to 5802 psi	PXM41MC0-400BARG5V	450

Comes complete with 5-point NIST traceable calibration.

** See section D for compatible meters.

3 m (10') cable standard. To order with PTIH-10-6P twist-lock connector, change model number from "PXM41MC0" to "PXM41MC1" or to order with mini DIN connector, change model number to "PXM41MC6". No extra charge.

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).

Ordering Examples: PXM41MC6-025BARG5V, 25 bar gage pressure transducer with G1/4B male thread, mini DIN and 0.5 to 5.5 Vdc output, \$450. PXM41MD0-1.60BARA5V, 1.60 bar absolute pressure transducer with G1/4B internal thread, 3 m (10') cable and 0.5 to 5.5 Vdc output, \$450.



METRIC
PXM41MC6-006BARG5V,
\$450, shown actual size.

VOLTAGE OUTPUT
PRESSURE TRANSDUCERS
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