

# HEAVY-DUTY INDUSTRIAL TRANSMITTER

## WITH UNIQUE DUAL 1/2 AND 1/4 NPT FITTING

### PX41 Series

4 to 20 mA Output  
0-10 to 0-30,000 psi  
0-0.7 to 0-2000 bar

1 bar = 14.5 psi  
1 kg/cm<sup>2</sup> = 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 Series consists of high-accuracy, low-cost pressure transmitters. Their sealed, all stainless steel construction makes them suitable for the harshest environments. They are available in gage, absolute, or sealed gage models. Ten feet of PVC insulated shielded cable is standard, or a Bendix style connector is also available. A wide selection of amplified voltage and current outputs makes the PX41 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)



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

  MOST POPULAR MODELS HIGHLIGHTED!

### To Order (Specify Model Number)

RANGE	MODEL NO.	PRICE	COMPATIBLE METERS**
<b>ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)</b>			
0 to 15 psi	0 to 1.0 bar	PX41T0-015AI	\$530 DP41-E, DP25B-E, DP24-E
0 to 20 psi	0 to 1.4 bar	PX41T0-020AI	530 DP41-E, DP25B-E, DP24-E
0 to 30 psi	0 to 2.1 bar	PX41T0-030AI	530 DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX41T0-050AI	480 DP41-E, DP25B-E, DP24-E
<b>GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)</b>			
0 to 10 psi	0 to 0.69 bar	PX41T0-010GI	\$530 DP41-E, DP25B-E, DP24-E
0 to 15 psi	0 to 1.0 bar	PX41T0-015GI	530 DP41-E, DP25B-E, DP24-E
0 to 20 psi	0 to 1.4 bar	PX41T0-020GI	530 DP41-E, DP25B-E, DP24-E
0 to 30 psi	0 to 2.1 bar	PX41T0-030GI	530 DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX41T0-050GI	480 DP41-E, DP25B-E, DP24-E
0 to 75 psi	0 to 5.2 bar	PX41T0-075GI	480 DP41-E, DP25B-E, DP24-E
0 to 100 psi	0 to 6.9 bar	PX41T0-100GI	480 DP41-E, DP25B-E, DP24-E
0 to 200 psi	0 to 13.8 bar	PX41T0-200GI	480 DP41-E, DP25B-E, DP24-E
0 to 300 psi	0 to 20.7 bar	PX41T0-300GI	480 DP41-E, DP25B-E, DP24-E
0 to 500 psi	0 to 34.5 bar	PX41T0-500GI	480 DP41-E, DP25B-E, DP24-E
0 to 750 psi	0 to 51.7 bar	PX41T0-750GI	480 DP41-E, DP25B-E, DP24-E
0 to 1000 psi	0 to 68.9 bar	PX41T0-1KGI	480 DP41-E, DP25B-E, DP24-E
0 to 1500 psi	0 to 103 bar	PX41T0-1.5KGI	480 DP41-E, DP25B-E, DP24-E
0 to 2000 psi	0 to 138 bar	PX41T0-2KGI	480 DP41-E, DP25B-E, DP24-E
0 to 3500 psi	0 to 241 bar	PX41T0-3.5KGI	480 DP41-E, DP25B-E, DP24-E
0 to 5000 psi	0 to 345 bar	PX41T0-5KGI	480 DP41-E, DP25B-E, DP24-E
0 to 7500 psi	0 to 517 bar	PX41T0-7.5KGI	480 DP41-E, DP25B-E, DP24-E
0 to 10,000 psi	0 to 689 bar	PX41S0-10KGI	480 DP41-E, DP25B-E, DP24-E*
0 to 20,000 psi	0 to 1379 bar	PX41S0-20KGI	480 DP41-E, DP25B-E*, DP24-E*
0 to 30,000 psi	0 to 2068 bar	PX41S0-30KGI	480 DP41-E, DP25B-E*, DP24-E*

Comes with 5-point calibration.

\* 4-digit meter, counts in increments of 10.

Metric ranges available – consult Engineering.

\*\* See section D for compatible meters.

FM Approved for Hazardous Locations version available on absolute and sealed gage units with cable termination. 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).

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.

### ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
ME-1805	\$131	Reference Book: Instrumentation Fundamentals

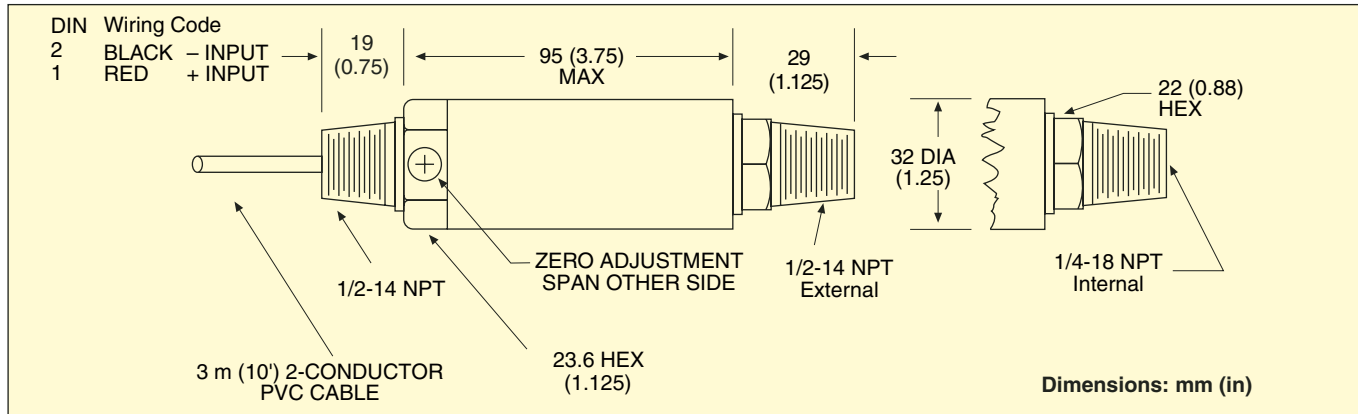


CURRENT OUTPUT  
PRESSURE TRANSDUCERS

B



# HEAVY-DUTY INDUSTRIAL TRANSMITTER



**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

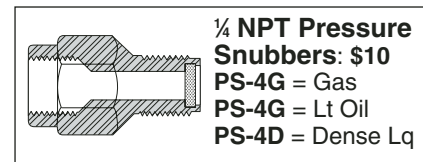
**Burst Pressure:** 300% of rated pressure

**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 (not included) PT06F-10-6S.

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



## CUSTOM CONFIGURATIONS

SERIES PX41	PRESSURE PORT [ 1 ]	ELECTRICAL CONNECTION [ 2 ]	RANGE (psi) [ 3 ]	UNITS [ 4 ]	OUTPUT [ 5 ]	OPTIONS [ 6 ]
	<b>C</b> = 1/4-18 NPT-M +\$20		010	S,G,A	<b>5V</b> = 0.5 to 5.5 Vdc output <b>Base Price</b>	<b>FM</b> FM Hazardous Location +\$150
	<b>D</b> = 1/4-18 NPT-F, no charge		015	S,G,A		
	<b>S</b> = 1/4 HP Tube Fitting (≥10,000 psi ranges)		020	S,G,A	<b>5T</b> = 0 to 5 Vdc output <b>add \$35</b> all ranges	4 to 20 mA output "S" or "A" pres. only; no zero or span adjustments
	<b>T</b> = Dual 1/2-14 NPT external 1/4-18 NPT internal		025	S,G,A		
	<b>K</b> = 3/8-20 UNF-F		030	S,G,A	<b>10V</b> = 0.5 to 10.5 Vdc output <b>n/c</b> all ranges	<b>MSHA</b> Mine Safety and Health Admin.
	<b>S</b> = 1/4 HP tube fitting		050	S,G,A		
	<b>J</b> = 3/8-20 UNF-M +\$20		075	S,G,A	<b>10T</b> = 0 to 10 Vdc output <b>add \$35</b> all ranges	0.5 to 5.5 V or 4 to 20 mA output
			100	S,G,A		
	<b>0</b> = 3 m (10') pigtail +\$2/.3 m (ft) over 3 m (10')		200	S,G,A	<b>I</b> = 4 to 20 mA output <b>add \$30</b> all ranges	<b>OX</b> Cleaned for Oxygen use +\$75 +2 weeks
	<b>1</b> = PTIH-10-6P connector (or equal, no charge) (not FM approved). Mating connector (not included), order <b>PT06F-10-6S \$26.50</b>		300	S,G,A		
	<b>5</b> = Lightning-protected amplifier housing (no charge) (4 to 20 mA model only)		500	S,G,A		<b>See page B-12 for additional options, including extended compensated temperatures.</b>
	<b>6</b> = DIN connector		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 <sup>†</sup>	S,G,A		
			15K <sup>†</sup>	S,G,A		
			20K <sup>†</sup>	S,G,A		
			30K <sup>†</sup>	S,G,A		
	<sup>†</sup> = Supplied with 1/4" HP tube fitting.					
	Metric ranges available – see Metric Section.					

**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, \$450 + 30 = \$480. PT06F-10-6S, mating connector (not included), \$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 + 30 + 150 = \$660. PX41T0-015A10V, 15 psi absolute pressure transducer with 3 m (10') cable and 0.5 to 10.5 Vdc output, \$500. PX41T0-30KS5V, 30,000 psi sealed gage pressure transducer with 3 m (10') cable and 0.5 to 5.5 Vdc output, \$450.

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters