

# HEAVY DUTY INDUSTRIAL PRESSURE TRANSMITTER



The PX771 is no longer available. Please see the PX771A as a possible substitute or consult our Pressure Engineering department.



PX771 Transmitter Shown with PX771-AD Adapters and DP41-E Meter.

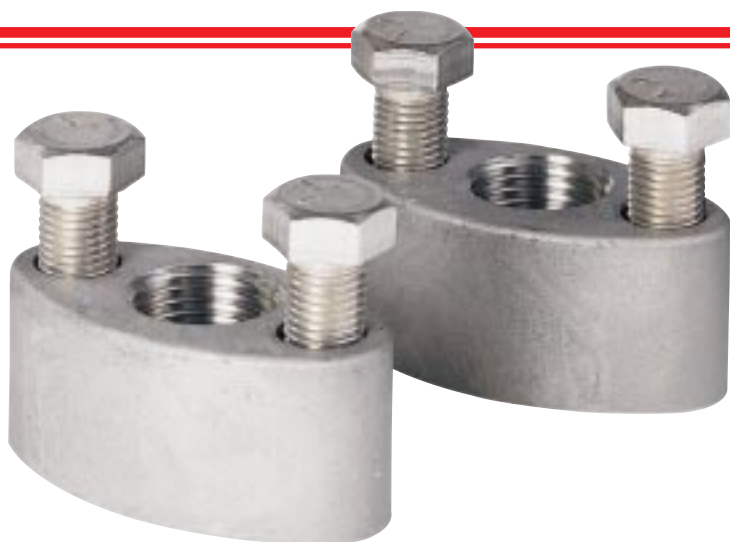


PX771  
**\$790**

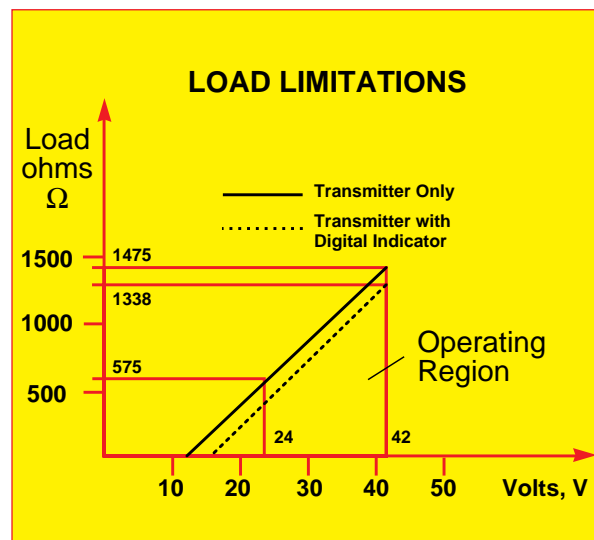
- ✓ FM Explosion-Proof Electronic Housing for Class 1, Division 1, Groups B, C, D
- ✓ 0.15% FS Accuracy
- ✓ Stainless Steel Diaphragm
- ✓ 4 to 20 mA Output
- ✓ 6:1 Turn Down Capability
- ✓ 500% Zero Suppression
- ✓ NEMA 4X Housing

The OMEGA® PX771 pressure transmitter is a compact, high performance transmitter, designed to accurately measure differential pressure and transmit a 4-20 mA signal. The PX771 has an adjustable range with a turn-down ratio of 6:1; it comes factory calibrated at the highest span. Ranges from 17 in H<sub>2</sub>O to 300 PSID are available. Zero and span adjustments are available inside the electronic housing. The zero point can be elevated and suppressed up to 500%. This transducer consists of an internal silicon diaphragm into which piezoresistive strain gages are diffused, then interconnected to form a pressure sensitive wheatstone bridge.

# FOR GAGE, DIFFERENTIAL AND VACUUM MEASUREMENTS



Optional PX771-AD 1/2 NPT Adapters



## SPECIFICATIONS

**Excitation:** 13-36 Vdc, reverse polarity protected (16 V min with optional local digital indicator)

**Output:** 4-20 mA dc

**Accuracy:**  $\pm 0.15\%$  of calibrated span (includes linearity, hysteresis and repeatability)

**Response Time:** 0.015 sec with damping jumper installed 10 mS with damping jumper removed

**Zero Adjustment:** Up to 500% suppression of lower range limit; up to 600% elevation of lower range limit

**Span Adjustment:** 6:1 turndown

**Zero Suppression Effect:** up to  $\pm 1\%$  of calibrated span

**Stability:**  $\pm 0.25\%$  of upper range limit per 6 months at reference conditions

**Operating Temperature:** media -40 to 200°F (40-104°C); electronics -25 to 185°F (32 to 85°C)

**Storage Temperature:** -40 to 212°F (-40 to 100°C)

**Combined Thermal Effect:**  $\pm 0.15$  URL/°F (Zero and Span)

**Static Pressure Effect:**  $\pm 0.5\%$  URL max

**Maximum Static Pressure:** 2000 PSI

**Burst Pressure:** 6000 PSI

**Mounting Position Effect:**  $\pm 1.5\%$  H<sub>2</sub>O maximum

**Vibration Effect:**  $\pm 1\%$  URL for 15 to 1600 Hz at 1G in any axis with damping ON

**Diaphragm:** 316 Stainless Steel and buna-n O-ring

**Flanges and Bolts:** 316 stainless steel

**Fill Fluid:** DC 200 silicone oil

**Media:** Liquid, gas or vapor

**Pressure Connection:** 1/4" NPT on flanges; 1/2" NPT optional flanges

**Electrical Connections:** 1/2" NPT conduit thread

**Hazardous Locations:** Factory mutual (FM) approval explosion proof Class I, Div 1, Groups B, C, and D not available with option "-M"

**Weight:** 5.5 lb

## MOST POPULAR MODELS HIGHLIGHTED

To Order ( <i>Specify Model Number</i> )			
RANGE	MODEL NO.	PRICE	COMPATIBLE METERS
0-17" to 0-100" H <sub>2</sub> O	PX771-100WDI	\$790	DP25-E, DP41-E, DP460-E
0-50" to 0-300" H <sub>2</sub> O	PX771-300WDI	790	DP25-E, DP41-E, DP460-E
0-4.2 to 0-25 PSI	PX771-025DI	790	DP25-E, DP41-E, DP460-E
0-17 to 0-100 PSI	PX771-100DI	790	DP25-E, DP41-E, DP460-E
0-50 to 0-300 PSI	PX771-300DI	790	DP25-E, DP41-E, DP460-E
OPTIONS			
SUFFIX	PRICE	DESCRIPTION	
-M3	\$140	3½ digit LCD local indicator (FM Approval not avail w/ option)	
-MB	30	Mounting Bracket ordered with unit	
ACCESSORIES			
MODEL No.	PRICE	DESCRIPTION	
PX771-AD	\$80	1 pair of Stainless steel ½ NPT adapters	
PX771-B3	60	2" pipe mounting bracket (ordered separately)	

Comes with complete operator's manual.

**Ordering Example:** PX771-300WDI-MB is an industrial transmitter with 0-50" to 0-300" H<sub>2</sub>O range and a 2" pipe mounting bracket, \$790 + 30 = \$820.



## UNITED STATES

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

1-800-TC-OMEGA  
Stamford, CT.

## CANADA

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

Laval(Quebec)  
1-800-TC-OMEGA

## GERMANY

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

Deckenpfronn, Germany  
0800-8266342

## UNITED KINGDOM

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

Manchester, England  
0800-488-488

## FRANCE

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

Guyancourt, France  
088-466-342

## CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)

Karviná, Czech Republic  
596-311-899

## BENELUX

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

Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, 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, Wire

### • 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

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 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, Strain Gages, 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