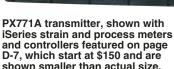
# 6:1 TURN-DOWN INDUSTRIAL DIFFERENTIAL PRESSURE TRANSMITTER

**PX771A Series** 4 to 20 mA Output 0-17 inH<sub>2</sub>O to 0-300 psid









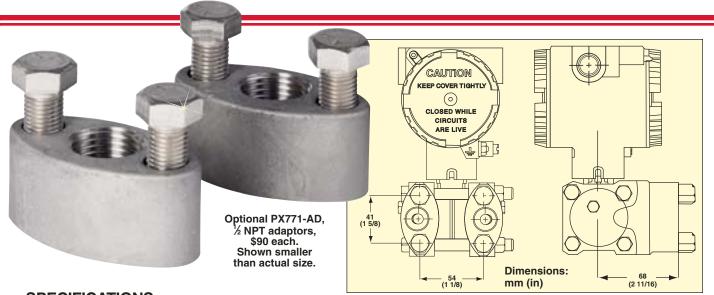
- ✓ 2-Year Warranty
- ✓ 0.15% FS Accuracy
- Explosion-Proof Electrical Housing
- ✓ Stainless Steel Wetted Parts

- Process Wetted Parts Meet NACE Specification MR0175-91
- ✓ High Common-Mode Pressure Rejection
- ✓ 6:1 Turn-Down Capability
- ✓ NEMA 4X (IP66) Housing
- 4 to 20 mA or 1 to 5 Vdc Output



The OMEGA® PX771A low-power pressure transmitter is a compact, high-performance unit, designed to measure differential pressure and transmit a 4 to 20 mA signal. It has an adjustable range with a turndown ratio of 6:1, and it comes factory-calibrated at the highest span. Ranges from 17 inH₂O to 300 psid are available. Zero and span adjustments are accessed inside the electronic housing. The zero point can be elevated and suppressed up to ±600%. This transducer has 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



#### **SPECIFICATIONS**

**Service:** Liquid, gas or vapor

**Excitation:** 

24 Vdc, 7 to 36 Vdc mA output, 6 to 42 Vdc @ 1.6 mA voltage output

Output: 4 to 20 mA (2 wire) or 1 to 5 Vdc

(3 wire) jumper selectable  $\hat{}$  **Max Loop Resistance:** (Supply voltage -7) x 50  $\Omega$ 

**Accuracy:** ±0.1% of URL (upper range limit, includes linearity,

hysteresis and repeatability)

Stability: ±0.25% of URL
(upper range limit) 1 year

Span Adjust: 16 to 100% URL

(DIP switches and pot) **Zero Adjust:** -600 to 600% LRL

(lower range limit)

Operating Temperature:

**Process:** -40 to 104°C (-40 to 220°F) **Electrical:** -32 to 85°C (-25 to 185°F)

**Ambient Total Thermal Effects:** 

0.010% URL/°F for -25 to 75°F 0.015% URL/°F for 75 to 185°F (0.020% URL/°F for 100 inH<sub>2</sub>O)

Response Time: 63% response 1 ms or 50 ms with damping

**Static Pressure Effect:** 

+0.05% of URL <100 psi ranges +0.1% of URL for 100 and 300 psi ranges

**EMI Effect:** ±1% URL @ 10 V/m from 20 to 500 MHz. Meets /SAMA PMC-33-1C with cover in place and electrical wiring in grounded conduit.

Approvals: UL/CUL Hazardous Location: I/I/C, D Non-incendive: I/II/A, B, C, D Wetted Parts: 316 SS

Process Connection: 1/4 NPT internal,

½ NPT with optional adaptors Fill Fluid: DC 200 silicone

Housing: Low copper aluminum, epoxy coated, NEMA 4X (IP66)

Electrical Connection: ½ NPTF conduit, with internal screw terminals

Weight: 2.9 kg (6.4 lb) Compatible Meters: DP41-E, DP25-E, DP24-E, DP460, DP3002-E and others (see section D for complete selection)



**MOST POPULAR MODELS HIGHLIGHTED!** 

#### To Order *(Specify Model Number)* **RANGE** MODEL NO. **PRICE MAX WORK PRES COMPATIBLE METERS\*** 0-17 to 0-100 inH<sub>2</sub>O PX771A-100WCDI iSeries, DP25B-E, DP41-E, DP460-E \$1005 2000 psi PX771A-300WCDI iSeries, DP25B-E, DP41-E, DP460-E 0-50 to 0-300 inH2O 1005 2000 psi 0-4.2 to 0-25 psi PX771A-025DI 1005 2000 psi iSeries, DP25B-E, DP41-E, DP460-E 0-17 to 0-100 psi PX771A-100DI 1005 2000 psi iSeries, DP25B-E, DP41-E, DP460-E 0-50 to 0-300 psi PX771A-300DI 1005 2000 psi iSeries, DP25B-E, DP41-E, DP460-E

OPTIONS AND ACCESSORIES		
-SUFFIX or MODEL NO.	PRICE	DESCRIPTION
-M3	\$175	3½ digit LCD local indicator (FM approval not available with option)
PX771-AD	90	1 pair of stainless steel ½ NPT adaptors
PX771A-MB-KIT	65	2" pipe mounting bracket (order separately), flange mount
PX771A-MB-KIT-N	65	Neck mounting bracket kit (order separately)
OP-17	15	Reference Book: Measure for Measure

<sup>\*</sup> See section D for compatible meters. Comes with complete operator's manual.

**Ordering Examples:** PX771A-300WCDI, industrial transmitter with 0-50 to 0-300 in $H_2O$  range, \$1005. PX771A-100WCDI, industrial transmitter with 0-17 to 0-100 in $H_2O$  range, \$1005.

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#### Heaters

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