

316 STAINLESS STEEL INDUSTRIAL PRESSURE TRANSMITTER



PX831 Series

Starts at
\$445



- ✓ 0.3% Full Scale Accuracy
- ✓ Compact Size
- ✓ ½ NPT Process Connection
- ✓ ¾ NPT Conduit Connection with 0.6 m (24") Cable
- ✓ All Welded 316 Stainless Steel Construction
- ✓ FM Approved

The PX831 is a durable, accurate, fixed-range transmitter designed to give years of stable performance in even the toughest environmental and media conditions. Its small size and light weight eliminate the need for complicated mounting hardware and mechanical supports, thereby reducing installation time substantially. The in-line connection permits simple field wiring without additional hardware, contributing to the speed and ease of installation.

With its all welded design, the PX831 is weatherproof and capable of withstanding a direct spray with forces up to 200 psi without internal leakage. The all 316 stainless steel housing and wetted parts make it compatible with corrosive media and hazardous environments. The PX831 is designed to meet FM explosion-proof ratings and NACE standards for offshore requirements.

SPECIFICATIONS

Excitation: 12 to 30 Vdc
Output: 4 to 20 mA (2 wire)
Max Loop Resistance: 900 Ω @ 30 Vdc
Accuracy: ±0.3% of span @ 25°C (includes linearity, hysteresis and repeatability)
Zero Offset: 4 mA ±2% of span

Span: 16 mA ±1% of span
Storage Temperature: -40 to 100°C (-40 to 212°F)
Process Temperature: -40 to 100°C (-40 to 212°F)
Ambient Temperature: -40 to 60°C (-40 to 140°F)
Thermal Effects (Zero and Span Combined): ±2% per 28°C (50°F) from -40 to 60°C (-40 to 140°F)
Proof Pressure: 300% of rated pressure
Humidity Limits: 0 to 100% RH
Vibration Effect: ±0.1% FS for 3 g to 200 Hz
Housing: 316 stainless steel, NEMA 4 (IP66) rated
Wetted Parts: 316 L stainless steel
Fill Fluid: DC 200 silicone
Process Connection: ½ NPT female
Electrical Connection: 0.6 m (24"), 22 AWG cable with ¾ NPT female conduit port



PX831-100GI, \$445, shown actual size.

Weight: 374 g (0.87 lb)
Factory Mutual: Explosion-proof for Class I, Division I, Groups B, C and D; Class II Groups E, F and G; and Class III Hazardous Locations and Indoor and Outdoor NEMA 4 (IP65) Enclosure
Canadian Standards Association: Explosion-proof for Class I, Division I, Groups B, C and D; Class II Groups E, F and G; and Class III Hazardous Locations and meets CSA requirements for Enclosure 4

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)			
RANGE	MODEL NO.	PRICE	COMPATIBLE METERS*
0 to 15 psig	PX831-015GI	\$445	iSeries, DP41-E, DP25B-E, DP24-E
0 to 30 psig	PX831-030GI	445	iSeries, DP41-E, DP25B-E, DP24-E
0 to 100 psig	PX831-100GI	445	iSeries, DP41-E, DP25B-E, DP24-E
0 to 300 psig	PX831-300GI	445	iSeries, DP41-E, DP25B-E, DP24-E
0 to 1000 psig	PX831-1KGI	445	iSeries, DP41-E, DP25B-E, DP24-E
0 to 3000 psig	PX831-3KGI	445	iSeries, DP41-E, DP25B-E, DP24-E
0 to 5000 psig	PX831-5KGI	445	iSeries, DP41-E, DP25B-E, DP24-E
ABSOLUTE PRESSURE			
0 to 15 psia	PX831-015AI	\$485	iSeries, DP41-E, DP25B-E, DP24-E
0 to 30 psia	PX831-030AI	485	iSeries, DP41-E, DP25B-E, DP24-E
0 to 100 psia	PX831-100AI	485	iSeries, DP41-E, DP25B-E, DP24-E
VACUUM AND COMPOUND RANGES			
0 to 30 inHg vacuum	PX831-30VACI	\$485	iSeries, DP41-E, DP25B-E, DP24-E
30 inHg vac to 15 psig	PX831-30V15GI	485	iSeries, DP41-E, DP25B-E, DP24-E
30 inHg vac to 30 psig	PX831-30V30GI	485	iSeries, DP41-E, DP25B-E, DP24-E
30 inHg vac to 60 psig	PX831-30V60GI	485	iSeries, DP41-E, DP25B-E, DP24-E

Comes with operator's manual.

* See section D for compatible meters.

Ordering Example: PX831-100GI, industrial pressure transmitter with 0 to 100 psig range and 4 to 20 mA output, \$445.

VOLTAGE OUTPUT
PRESSURE TRANSDUCERS
B

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• 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