

# HIGH-ACCURACY FULL BRIDGE OUTPUT PRESSURE TRANSDUCER

0-10 to 0-7500 psi  
0-0.70 to 0-517 bar

## PX931 Series



PX931-3KSV,  
shown smaller  
than actual size.

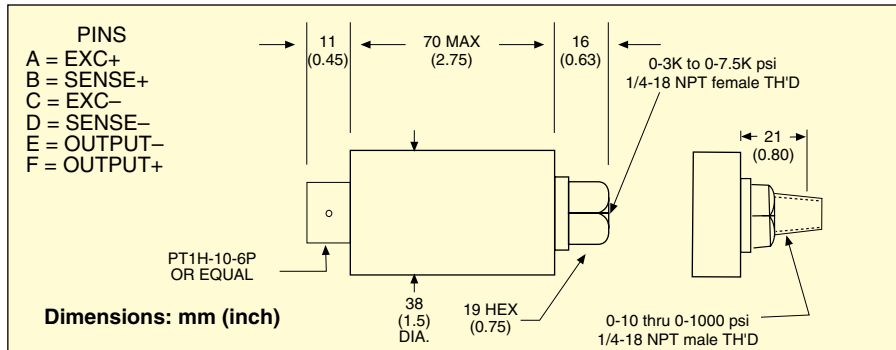
- ✓ Rugged Stainless Steel Case Protects Components in Industrial Environments
- ✓ Connects to a PT06F10-6S-R Connector for Easy Field Connections
- ✓ Stainless Steel Diaphragm Welded for Compatibility with Most Media
- ✓ Uses a Standard 10 Vdc Regulated Power Supply for Maximum Versatility
- ✓ 1/4 NPT Process Fitting for Fast, Easy, and Secure Installation
- ✓ Excellent Temperature Stability
- ✓ Units 100 psi and Below are Vented Gage for High Precision

### SPECIFICATIONS

**Excitation:** 10 Vdc (15 Vdc max) @ 30 mA  
**Output:** 30 mV ±0.25% @ 10 Vdc  
**Sensitivity:** 3 mV/V  
**Input Impedance:** 350 Ω min  
**Output Resistance:** 350 ±5 Ω  
**Insulation Resistance:** >5 MΩ @ 75 Vdc  
**Accuracy:** 0.15%  
**Hysteresis:** ±0.10%  
**Repeatability:** ±0.05%  
**Zero Balance:** ±1.0%  
**Shunt Calibration:** 59 kΩ  
**Operating Temperature Range:** -73 to 163°C (-100 to 325°F)  
**Compensated Temperature Range:** 16 to 71°C (60 to 160°F)

**Thermal Zero Effect:**  
±0.005% FS/°F  
**Thermal Sensitivity Effect:**  
±0.005% rdg/°F  
**Proof Pressure:** 150% of range  
**Burst Pressure:** 300% of range  
**Body Material:** 17-4 PH stainless steel, hermetically sealed  
**Diaphragm Material:** 17-4 PH SS

**Pressure Port:** 1/4-18 NPT  
**Male Thread:** 10 to 1000 psi  
**Female Thread:** 3000 to 7500 psi  
**Mating Connector** PT06F10-6S-R (not included)  
**Pressure Cavity Volume:** 0.171 in<sup>3</sup>  
**Weight:** 290 g (10 oz)



### To Order

| RANGE         | MODEL NO.     | COMPATIBLE METERS*                           |
|---------------|---------------|--|
| 0 to 10 psi   | 0 to 0.69 bar | <b>PX931-010GV</b> DP41-S, DP25B-S, DP3002-S |
| 0 to 25 psi   | 0 to 1.72 bar | <b>PX931-025GV</b> DP41-S, DP25B-S, DP3002-S |
| 0 to 50 psi   | 0 to 3.4 bar  | <b>PX931-050GV</b> DP41-S, DP25B-S, DP87     |
| 0 to 100 psi  | 0 to 6.9 bar  | <b>PX931-100SV</b> DP41-S, DP25B-S, DP87     |
| 0 to 200 psi  | 0 to 13.8 bar | <b>PX931-200SV</b> DP41-S, DP25B-S, DP3002-S |
| 0 to 500 psi  | 0 to 34.5 bar | <b>PX931-500SV</b> DP41-S, DP25B-S, DP87     |
| 0 to 1000 psi | 0 to 68.9 bar | <b>PX931-1KSV</b> DP41-S, DP25B-S, DP87      |
| 0 to 3000 psi | 0 to 207 bar  | <b>PX931-3KSV</b> DP41-S, DP25B-S, DP41-S    |
| 0 to 5000 psi | 0 to 345 bar  | <b>PX931-5KSV</b> DP41-S, DP25B-S, DP87      |
| 0 to 7500 psi | 0 to 517 bar  | <b>PX931-7.5KSV</b> DP41-S, DP25B-S, DP87    |

Comes with 5-point calibration.

\* Visit us online for compatible meters.

Absolute ranges available. Change "G" to "A" in model number, for additional cost.

**Ordering Examples:** PX931-500SV, 500 psi sealed gage pressure transducer.

PX931-025GV, 25 psi gage pressure transducer. PT06F10-6S-R, mating connector (sold separately).



MILLIVOLT OUTPUT  
PRESSURE TRANSDUCERS

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