

PX91 Series mV/V Output

0-5,000 to 0-200,000 psi 0-350 bar to 0-14,000 bar

1 bar = 14.5 psi 1 kg/cm² = 14.22 psi 1 Atmosphere = 14.7 psi = 29.93 in-Hg = 760.2 mm-Hg = 1.014 bar

- All Stainless Steel Construction
- High Operating Temperature 218°C (425°F)
- Hermetically Sealed for Harsh Environments

The OMEGADYNE PX91 Series is a rugged, very high temperature pressure transducer series. They are hermetically sealed, have all stainless steel construction and are designed for use in very high temperature test chambers. The PX91 is available in sealed gage pressures up to 200,000 psi and operating temperature up to 218°C (425°F). The pressure connection is via a High Pressure ferrule connection. FM/CSA approved Intrinsically Safe is standard.

For Sales and Service In U.S.A. and Canada

1-800-USA-DYNE
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Formerly T-HYDRONICS, INC.

USA NIST





PX91-mV
Interchangeable with
Model TH-HPT

HIGH TEMPERATURE HIGH PRESSURE TRANSDUCER



→ Most Popular Models Highlighted ◀

Prices Shown in U.S. Dollars

| VIVIOST POPULAL | ivioaeis Highlightea 🔫 | Prices Snown in U.S. Dolla | | | | | |
|----------------------------------|------------------------|----------------------------|-------------------|--|--|--|--|
| To Order: (Specify Model Number) | | | | | | | |
| Range (psi) Model Number | | Price | Compatible Meters | | | | |
| Cable Style, Sea | aled Gage Pressure | | | | | | |
| 0-5,000 | PX91N0-5KSV | \$845 | INFS, INFCS | | | | |
| 0-10,000 | PX91N0-10KSV | 845 | INFS, INFCS | | | | |
| 0-15,000 | PX91N0-15KSV | 845 | INFS, INFCS* | | | | |
| 0-20,000 | PX91N0-20KSV | 845 | INFS, INFCS* | | | | |
| 0-30,000 | PX91N0-30KSV | 845 | INFS, INFCS* | | | | |
| 0-35,000 | PX91N0-35KSV | 845 | INFS, INFCS* | | | | |
| 0-50,000 | PX91N0-50KSV | 845 | INFS, INFCS* | | | | |
| 0-60,000 | PX91N0-60KSV | 845 | INFS, INFCS* | | | | |
| 0-80,000 | PX91P0-80KSV | 1250 | INFS, INFCS* | | | | |
| 0-100,000 | PX91P0-100KSV | 1250 | INFS, INFCS* | | | | |
| 0-120,000 | PX91P0-120KSV | 1450 | INFS, INFCS* | | | | |
| 0-150,000 | PX91P0-150KSV | 1600 | INFS, INFCS* | | | | |
| 0-200,000 | PX91P0-200KSV | 1800 | INFS, INFCS* | | | | |

* 4 Digit meter

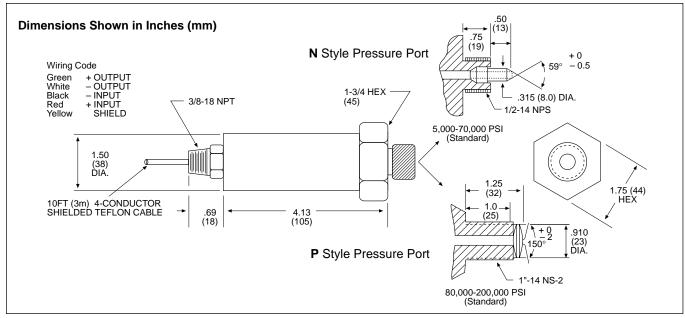
Interchangeable with Model TH-HPT

Metric Ranges available - Consult Engineering

Ordering Examples: 1.) PX91P0-100KSV is a 100,000 psi sealed gage model with a 1-14 NS fitting and 10 ft (3m) cable, \$1250.

2.) PX91N0-15KSV is a 15,000 psi sealed gage model with ½-14 NPS fitting and 10 ft (3m) cable, \$845.





SPECIFICATIONS: mV/V Output

Electrical:

Excitation: 10 V ac/dc (15V max)

Output: 1 mV/V

Bridge Resistance: 350 Ohms nominal

Zero Balance: ±2.5% Agency Approvals: FM/CSA Intrinsically Safe IS/I.II.III/1/CDEFG

Standard Performance:

Accuracy Class: 0.5%

Linearity: ±0.35% FSO <75K psi

±0.50% FSO ≥75K psi Hysteresis: ±0.10% FSO Repeatability: ±0.10% FSO

Environmental:

Operational Temp Range: -73 to +218°C (-100 to +425°F)

Compensated Temp Range: -18 to +218°C (70 to +425°F)

Thermal Effects:

Span: 0.005% Rdg/°F Zero: 005% FSO/°F

Pressure:

Proof Pressure:

5K to 50K psi: 120% of rated pressure 60K to 200K psi: 110% of rated pressure

Burst Pressure:

5K to 50K psi: 150% of rated pressure 60K to 200K psi: 120% of rated pressure

Wetted Parts:

5 to 50K: 17-4 PH Stainless Steel 60K to 200K: 455 Stainless Steel

Pressure Port:

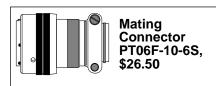
5K to 70K psi: 1/2-14 NPS (use with .315)

dia. 59° ferrule)

> 70K psi: 1-14 NS-2 (use with .910 dia

150° ferrule)

Electrical Connection: 10ft (3m) 4-conductor shielded Teflon cable



CUSTOM CONFIGURATIONS:

| SERIES PX91 | PRESSURE PORT [1] | ELECTRICAL CONNECTION [2] | RANGE (PSI) [3] | UNITS [4] | OUTPUT [5] | OPTIONS [6] |
|--|---------------------------|-----------------------------|---|---|--|------------------|
| N = ½-14 .315 Ranges P= 1-14 | | | 30K 35K 50K 60K — 80K — 100K — | S = Sealed Gage mV/V 5 Volt 4-20m/ \$845 \$860 \$860 \$1250 \$1580 \$1500 | V = mV/V 5T = 0-5Vdc I = 4-20 mA | |
| Amplified Models Only 1 = PT1H-10-6P Connector (or Equal),(no charge). Mating Connector not included order PT06F-10-6S \$26.50 5 = Lightening Protected Amplifier Housing (no charge) | | | 150K — | -\$1450 \$1580 \$1580 -\$1600 \$1800 \$1800 -\$1800 \$1900 \$1900 | To Order a Custom Configuration: Select a Pressure Port Select Electrical Connection Select a Pressure Range Select Pressure Units Select Output Select Agency Approvals | |

Interchangeable with Model HPT, HPT-V, HPT-VA

Metric Ranges Available - Consult Engineering

To order extra cable on Cable Style models, add suffix "-(length in feet)FT" and \$4.50/ft over the standard 10 ft (3m) length.

Ordering Examples: 1.) PX91P5-100KSI is a 100,000 psi Sealed Gage Pressure range model with, 4-20 mA output, 1-14 NS-2 fitting and a

ightening protected amplifier housing, \$1500.

2.) PX91P1-80KS5T is an 80,000 psi Sealed Gage Pressure range model with 0 to 5Vdc output, a 1-14 NS-2 fitting and an integral connector, \$1500. Mating Connector (not included) PT06F-10-6S, \$26.50.

3.) PX91N0-50KSV-25FT is a 50,000 psi Sealed Gage Pressure range model with mV/V output, ½-14 NPS fitting and 25ft (7.6m) cable, 845+67.50 = \$912.50

4.) PX91P0-100KSI is a 100,000 psi Sealed Gage Pressure range model with 4-20 mA output, 1-14 NS fitting and integral Bendix Connector, \$1500. Mating Connector (not included) PT06F-10-6S, \$26.50.