

ULTRA HIGH TEMPERATURE / HIGH PRESSURE TRANSDUCERS

OPERATING TEMPERATURE UP TO 316°C (600°F)



PX92
\$1700
Model Shown

PX92 Series

mV/V Output

0-5,000 to 0-100,000 psi

0-350 to 0-7,000 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

- ✓ FM Approved
Intrinsically Safe
- ✓ All Stainless Steel Case
- ✓ Compensated
Temperature to 260°C
(500°F)
- ✓ Operating Temperature
to 316°C (600°F)
- ✓ Hermetically Sealed for
Harsh Environments

OMEGA's PX92 Series is a rugged, ultra high temperature pressure transducer. Special construction material and strain gages, allow the PX92 to operate up to 316°C (600°F) with high temperature compensation of 260°C (500°F). It is hermetically sealed, has all stainless steel construction and is designed for the harshest environments encountered in ultra high temperature test chambers. The PX92 is available in pressures up to 100,000 psi. Electrical connection is a 10 ft (3m) 4 conductor cable. The pressure connection is via a high pressure ferrule connection. FM approved intrinsically safe is standard.

PX92N0-50KSV
Shown Smaller
Than Actual Size



SPECIALTY
PRESSURE TRANSDUCERS
B

To Order (Specify Model Number)

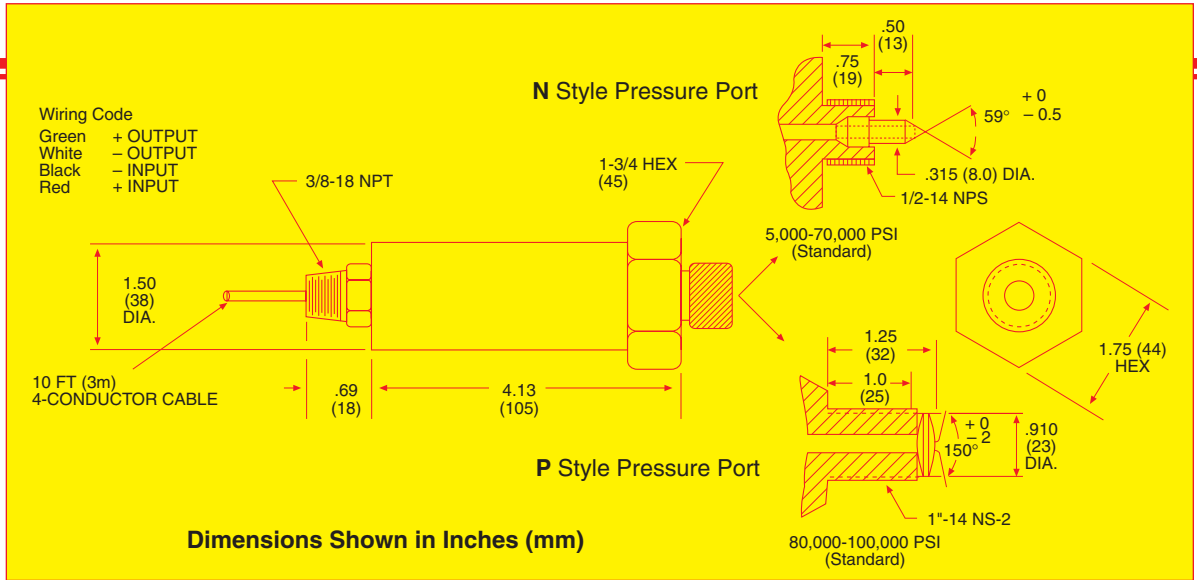
RANGE (psi)	MODEL NO.	PRICE	COMPATIBLE METERS
Cable Style, Ultra High Temperature, Sealed Gage Pressure			
0 to 5,000	PX92N0-5KSV	\$1700	DP41-S, DP25-S
0 to 10,000	PX92N0-10KSV	1700	DP41-S, DP25-S
0 to 15,000	PX92N0-15KSV	1700	DP41-S, DP25-S*
0 to 20,000	PX92N0-20KSV	1700	DP41-S, DP25-S*
0 to 30,000	PX92N0-30KSV	1700	DP41-S, DP25-S*
0 to 35,000	PX92N0-35KSV	1700	DP41-S, DP25-S*
0 to 50,000	PX92N0-50KSV	1700	DP41-S, DP25-S*
0 to 60,000	PX92N0-60KSV	1700	DP41-S, DP25-S*
0 to 80,000	PX92P0-80KSV	1900	DP41-S, DP25-S*
0 to 100,000	PX92P0-100KSV	1900	DP41-S, DP25-S*

* 4 Digit meter

Metric Ranges Available - Consult Engineering

Ordering Examples:

- 1.) PX92N0-50KSV is a 50,000 psi Sealed Gage model with 1/2-14 NPS connection, \$1700.
- 2.) PX92P0-80KSV is an 80,000 psi Sealed Gage model with 1-14 NS connection, \$1900.



SPECIFICATIONS:

m/V/V OUTPUT

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

Output: 1 mV/V minimum

Bridge Resistance: 350 Ω nominal

Zero Balance: ±2.5% FSO

Agency Approvals:

FM Intrinsically Safe
 IS/I.II.III/1/CDEFG Standard

Linearity: ±0.5% FSO

Hysteresis: ±0.10% FSO

Repeatability: ±0.10% FSO

Operational Temp Range:

+21 to +316°C (+70 to +600°F)

Compensated Temp Range:

+21 to +260°C (+70 to +500°F)

Thermal Effects:

Span: .01% Rdg/°F

Zero: .01% FSO/°F

Pressure:

Proof Pressure:

5K to 50K psi: 120% of rated pressure

60K to 100K psi: 110% of rated pressure

Burst Pressure:

5K to 50K psi: 150% of rated pressure

60K to 100K psi: 120% of rated pressure

Wetted Parts:

5 to 75K: 17-4 PH Stainless Steel

80K to 100K: 455 Stainless Steel

Pressure Port:

5K to 70K psi:

½-14 NPS (use 0.315 dia. 59° ferrule)

> 70K psi: 1-14 NS-2

(use 0.910 dia. 150° ferrule)

Electrical Connection:

10 ft (3m) 4-conductor cable

CUSTOM CONFIGURATIONS:

SERIES	PRESSURE PORT	ELECTRICAL CONNECTION	RANGE (PSI)	UNITS	OUTPUT	OPTIONS
PX92	[1]	[2]	[3]	[4]	[5]	[6]
Ranges ≤ 70,000 psi N = ½-14 NPS use with .315 dia 59° ferrule		0= 10 ft (3m) cable \$4.50/ft over 10 ft	5K	S = Sealed Gage	V = mV/V	
Ranges > 70,000 psi P= 1-14 NS-2 use with .910 dia. 150° ferrule			10K			
			15K	\$1700		
			20K			
			30K	\$1900		
			35K			
			50K			
			60K			
			80K			
			100K			

To Order a Custom Configuration:

1. Select a Pressure Port
2. Select Electrical Connection
3. Select a Pressure Range
4. Select Pressure Units
5. Select Output
6. Select Agency Approvals

Metric Ranges Available - Consult Engineering

Ordering Examples:

1.) **PX92P0-100KSV** is a 100,000 psi Sealed Gage Pressure range model with, mV/V output, 1-14 NS-2 fitting, and 10 ft (3m) cable, **\$1900.**

2.) **PX92N0-50KSV-25FT** is a 50,000 psi Sealed Gage Pressure range model with mV/V output, ½-14NPS fitting and 25 ft (7.6m) cable, \$1700+\$67.50 = **\$1767.50.**

3.) **PX92P0-80KSV** is an 80,000 psi Sealed Gage Pressure range model with m,V/V output, a 1-14 NS-2 fitting and 10 ft (3m) Teflon cable, **\$1900.**



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

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Manchester, England
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FRANCE

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• Temperature

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• 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