0-350 to 0-14.000 bar









Interchangeable with Model TH-HPT-VA

SPEC SHEET PX91-I-HEAD

ULTRA HIGH PRESSURE OMEGADYNE TRANSMITTER PX91 Series 4-20 mA Output **Lightening Protected Head Style** 0-5,000 to 0-200,000 psi

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 Atmosphere = 14.7 psi = 29.93 in-Hg = 760.2 mm-Hg = 1.014 bar

✓ Ranges up to 200,000 psi FM and CSA Approved Intrinsically Safe

All Stainless Steel Case 121°C (250°F)

Lightening Protected Amplifier Housing

The OMEGADYNE™ PX91 amplified output series is a rugged, high temperature/ ultra high pressure transducer. They are hermetically sealed, have all stainless steel construction and are designed for the harshest environments encountered in very high pressure/ high temperature test chambers. The PX91 is available in sealed gage pressures from 5,000 psi to 200,000 psi. Electrical connection are either a sealed Bendix connector or lightening protected amplifier housing. Pressure connection is via a high pressure ferrule connection. FM/CSA approved Intrinsically Safe is standard.

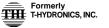
For Sales and Service In U.S.A. and Canada

-800-05A-DYNE **International Customers Dial** (614) 965-9340 24-Hour FAX (614) 965-9438

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Most Popular Models Highlighted 🗲

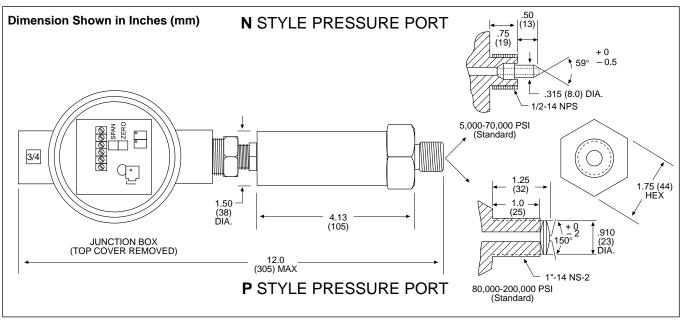
Prices Shown in II S Dollars

VIVIOST Popula	i woders nigniighted 🔫	Prices Snown in U.S. Dollars						
To Order: (Specify Model Number)								
Range (psi)	Model Number	Price	Compatible Meters					
Protected Head Style, Sealed Gage Pressure, 4-20mA Output								
0-5,000	PX91N5-5KSI	\$860	INFP, INFCP, IDP					
0-10,000	PX91N5-10KSI	860	INFP, INFCP, IDP					
0-15,000	PX91N5-15KSI	860	INFP, INFCP*, IDP*					
0-20,000	PX91N5-20KSI	860	INFP, INFCP*, IDP*					
0-30,000	PX91N5-30KSI	860	INFP, INFCP*, IDP*					
0-35,000	PX91N5-35KSI	860	INFP, INFCP*, IDP*					
0-50,000	PX91N5-50KSI	860	INFP, INFCP*, IDP*					
0-60,000	PX91N5-60KSI	860	INFP, INFCP*, IDP*					
0-80,000	PX91P5-80KSI	1500	INFP, INFCP*, IDP*					
0-100,000	PX91P5-100KSI	1500	INFP, INFCP*, IDP*					
0-120,000	PX91P5-120KSI	1580	INFP, INFCP*, IDP*					
0-150,000	PX91P5-150KSI	1800	INFP, INFCP*, IDP*					
0-200,000	PX91P5-200KSI	1900	INFP, INFCP*, IDP*					

* 4 Digit Meter

Interchangeable with Model TH-HPT-VA Metric Ranges Available - Consult Engineering Ordering Examples:1.) PX91N5-60KSI is a 60,000 psi sealed gage model with 4-20 mA output, a ½-14 NPS fitting and lightening protected amplifier housing, **\$860**. **2.) PX91P5-80KSI** is an 80,000 psi sealed gage model with 4-20 mA output, a 1-14 NS fitting and lightening protected amplifier housing, **\$1500**.





SPECIFICATIONS: 4-20 mA Output

Electrical:

Excitation: 12-40 Vdc Output: 4-20 mA ±10% adj. Zero Balance: 4 mA +10% -2% adj 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: -46 to +121°C (-50 to +250°F) **Compensated Temp Range:**

+17 to +71°C (+60 to +160°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:

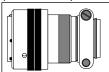
5K to 50K psi: 150% of rated pressure 60K to 200K psi: 120% of rated pressure

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 .315 dia. 59° ferrule) > 70K psi: 1-14 NS-2 (use .910 dia. 150° ferrule)

Electrical Connection: Terminal Strip inside Lightening Protected Amplifier Housing; Optional: Bendix PT1H-10-6P or equal

Mating Connector: PT06F-10-6P (not included)



Mating Connector PT06F-10-6S, \$26.50

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	≤ 70,000 psi INPS use with "dia 59° ferrule > 70,000 psi INS-2 use with 150° ferrule	.910"	5K — 10K 15K 20K 30K 35K 50K 60K —	S = Sealed Gage mV/V 5 Volt 4-20mA \$845 \$860 \$860	V = mV/V 5T = 0-5Vdc I = 4-20 mA	Α.
O = 10 ft (3m) Teflon Cable \$4.50/ft over 10 ft (3m) 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)			100K — 120K — 150K —	\$1250 \$1580 \$1500 -\$1450 \$1580 \$1580 -\$1600 \$1800 \$1800 -\$1800 \$1900 \$1900	 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 	

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

Ordering Examples: 1.) PX91P5-100KS is a 100,000 psi Sealed Gage Pressure range model with, 4-20 mA output, 1-14 NS-2 fitting and a lightening protected amplifier housing, \$1500.

2.) PX91P1-80KS5T is an 80,000 psi Sealed Gage Pressure range model with 0 to 5 Vdc 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.