

PX91 Series 0-5 Vdc Output

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

Ranges up to 200,000 psi

FM and CSA Approved Intrinsically Safe

Hermetically Sealed for Harsh Environments

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 to 200,000 psi. The electrical connection is either a sealed Bendix connector or Lightening protected explosion proof 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

1-800-05A-DYNE

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Formerly T-HYDRONICS, INC.



SPEC SHEET PX91-5V-HEAD

Interchangeable with Model TH-HPT-V

ULTRA HIGH PRESSURE TRANSDUCERS

Lightening Protected Head Style



► Most Popular Models Highlighted ←

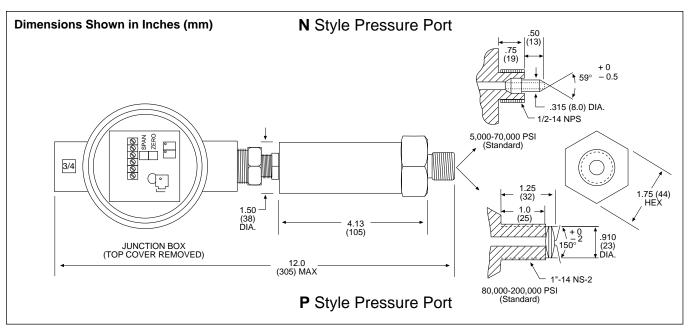
Prices Shown in U.S. Dollars

	To Order: (Specify Model Number)				
9	Range (psi)	Model Number	Price	Compatible Meters	
	Protected Head Style, Sealed Gage Pressure, 0-5Vdc Output				
	0-5,000	PX91N5-5KS5T	\$860	INFP, INFCP	
	0-10,000	PX91N5-10KS5T	860	INFP, INFCP	
	0-15,000	PX91N5-15KS5T	860	INFP, INFCP*	
	0-20,000	PX91N5-20KS5T	860	INFP, INFCP*	
>	0-30,000	PX91N5-30KS5T	860	INFP, INFCP*	4
	0-35,000	PX91N5-35KS5T	860	INFP, INFCP*	
>	0-50,000	PX91N5-50KS5T	860	INFP, INFCP*	4
>	0-60,000	PX91N5-60KS5T	860	INFP, INFCP*	4
	0-80,000	PX91P5-80KS5T	1580	INFP, INFCP*	
>	0-100,000	PX91P5-100KS5T	1580	INFP, INFCP*	
	0-120,000	PX91P5-120KS5T	1580	INFP, INFCP*	
>	0-150,000	PX91P5-150KS5T	1800	INFP, INFCP*	4
	0-200,000	PX91P5-200KS5T	1900	INFP, INFCP*	

^{* 4} Digit meter counts in increments of 10

Interchangeable with Model TH-HPT-V Metric Ranges Available - Consult Engineering Ordering Examples: 1.) PX91N5-60KS5T is a 60,000 psi Sealed Gage Pressure model with ½-14 NPS connection, 0-5 Vdc output and lightening protected amplifier housing, \$860.
2.) PX91P5-80KS5T is an 80,000 psi Sealed Gage Pressure model with 1-14 NS fitting, 0-5 Vdc output and lightening protected amplifier housing, \$1580.





SPECIFICATIONS: 5Vdc Output

Electrical:

Excitation: 24-32 Vdc Output: 0-5 Vdc ±10% adj. Zero Balance: 0V ±10% FSO adj Agency Approvals: FM/CSA Intrinsically Safe IS/I.II.III/1/CDEFG

Standard Performance:

Accuracy Class: 0.5%

Linearity: <75K psi: ±0.35% FSO

≥75K psi: ±0.50% FSO 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:

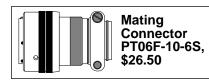
5K to 50K psi: 150% of rated pressure 60K to 200K psi: 120% of rated pressure Wetted Parts: 5 to 50K: 17-4 PH SS 60K to 200K: 455 Stainless Steel Pressure Port: 5K to 70K psi:

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

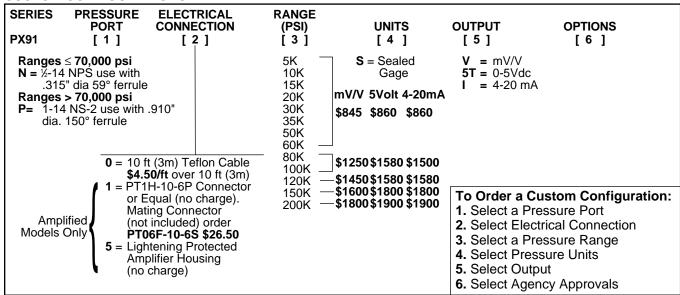
150° ferrule)

Electrical Connection: Barrier Strip inside a Lightening Protected Amplifier

Housing



CUSTOM CONFIGURATIONS:



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

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.