SPEC SHEET PX91-5V

Interchangeable with Model TH-HPT-V

## PX91 Series 0-5 Vdc Output

**OMEGADYNE** 

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

☐ High Operating Temperature 121°C (250°F)

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 5000 psi to 200,000 psi. The electrical connection is either a sealed 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-USA-DYNE International Customers Dial (614) 965-9340 24-Hour FAX (614) 965-9438

> OMEGADYNE<sup>SM</sup> FAX OMEGADYNE'S 24-Hour

On-Line Publishing Service

1-800-B44-3963 1-800-DiG-DYNE Document # 3710

OMEGADYNE, Inc. 149 Stelzer Court, Sunbury, OH 43074 http://www.omegadyne.come-mail: info@omegadyne.com

© COPYRIGHT 1996 OMEGADYNE, INC. ALL RIGHTS RESERVED.

Formerly T-HYDRONICS, INC.

## ULTRA HIGH PRESSURE TRANSDUCERS



► Most Popular Models Highlighted ←

Prices Shown in U.S. Dollars

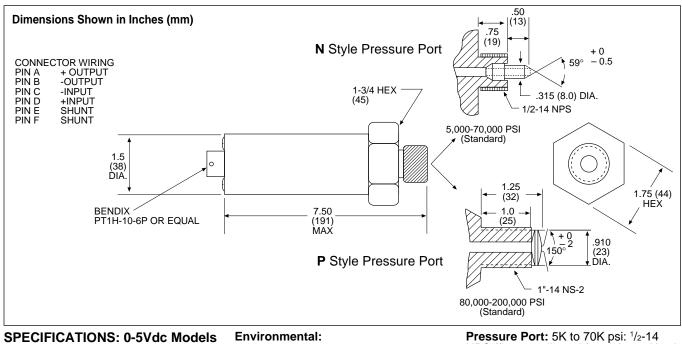
	<b>→</b> IVIOST POPUIA	r Models Highlighted 🔫	Prices Shown in U.S. Dollars					
	To Order: (Specify Model Number)							
	Range (psi)	Model Number	Price	Compatible Meters	ì			
Connector Style, Sealed Gage Pressure								
	0-5,000	PX91N[*]-5KS5T	\$860	INFP, INFCP, IDP	ì			
	0-10,000	PX91N[*]-10KS5T	860	INFP, INFCP, IDP	ì			
	0-15,000	PX91N[*]-15KS5T	860	INFP, INFCP*, IDP*	ì			
	0-20,000	PX91N[*]-20KS5T	860	INFP, INFCP*, IDP*	ì			
<b>~</b>	0-30,000	PX91N[*]-30KS5T	860	INFP, INFCP*, IDP*	4			
	0-35,000	PX91N[*]-35KS5T	860	INFP, INFCP*, IDP*	Ì			
<b>→</b>	0-50,000	PX91N[*]-50KS5T	860	INFP, INFCP*, IDP*	4			
<b>→</b>	0-60,000	PX91N[*]-60KS5T	860	INFP, INFCP*, IDP*	4			
	0-80,000	PX91P[*]-80KS5T	1580	INFP, INFCP*, IDP*	ì			
<b>&gt;</b>	0-100,000	PX91P[*]-100KS5T	1580	INFP, INFCP*, IDP*	4			
	0-120,000	PX91P[*]-120KS5T	1580	INFP, INFCP*, IDP*				
<b>→</b>	0-150,000	PX91P[*]-150KS5T	1800	INFP, INFCP*, IDP*	•			
	0-200,000	PX91P[*]-200KS5T	1900	INFP, INFCP*, IDP*	Ì			

<sup>\* 4</sup> Digit Meter

Interchangeable with Model TH-HPT-V Metric Ranges Available - Consult Engineering [\*] Insert **0** for 10 ft Cable or **1** for Connector Style

Ordering Examples: 1.) PX91N1-60KS5T is a 60,000 psi sealed gage model with 0-5 Vdc output, ½-14 NPS fitting, Connector Style, \$860. Mating Connector (not included) PT06F-10-6S, \$26.50.

2.) PX91P0-80KS5T is a 80,000 psi sealed gage model with 0-5 Vdc output, 1-14 NS fitting and 10 ft (3m) teflon cable, \$1580.



## SPECIFICATIONS: 0-5Vdc Models

Electrical:

Excitation: 24-32 Vdc Output: 0-5 Vdc ±10% adj Zero Balance: 0V ±10% FSO adj Agency Approvals: FM/CSA Intrinsically Safe IS/1.11.111/1/CDEFG

Standard Performance:

Accuracy Class: 0.5%

**Nonlinearity:** <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: 0.05% FSO/°F

Pressure:

**Proof Pressure:** 

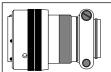
5K to 50K psi: 120% of rated pressure 60K to 200K psi: 110% of rated pressure

**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 SS

Mating Connector: for connector style PT06F-10-6S (not included)



Housing

**Electrical Connection:** 

Bendix PT1H-10-6P or equal

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

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

Optional: Lightening Protected Amplifier

## 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	≤ <b>70,000 psi</b> I NPS use with I' dia 59° ferrule > <b>70,000 psi</b> I NS-2 use with 150° ferrule		5K — 10K 15K 20K 30K 35K 50K 60K —	S = Sealed Gage mV/V 5Volt 4-20mA \$845 \$860 \$860	V = mV/V 5T = 0-5Vdc I = 4-20 mA	•
Amplified Models Only  Amplified Models Only  Amplified Models Only  Mating Connector (not included) order PT06F-10-6S \$26.50  Lightening Protected Amplifier Housing (no charge)			- 80K - 100K <u>-</u> 120K - 150K -	\$1250 \$1580 \$1500 -\$1450 \$1580 \$1580 -\$1600 \$1800 \$1800 -\$1800 \$1900 \$1900	To Order a Custom Configuration	

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,

2.) FX91P 1-80KSJ 118 all 80,000 psi Sealed Sage Fressure range model with 0.03 vac output, a 1-14 N3-2 fitting and all 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.