ULTRA-HIGH-PRESSURE TRANSMITTER LIGHTNING-PROTECTED HEAD STYLE

PX91 Series 4 to 20 mA Output 0-5000 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 inHg = 760.2 mmHg = 1.014 bar



- ✓ Ranges Up to 200,000 psi
- ✓ FM Approved Intrinsically Safe
- All Stainless Steel Case
- High Operating Temperature, Up to 121°C (250°F)
- Lightning-Protected Amplifier Housing

OMEGA's PX91 amplified output series comprises rugged, high-temperature/ultra highpressure transducers. They are hermetically sealed, with all stainless steel construction, and are designed for the harshest test chamber environments. The PX91 is available in sealed gage pressures from 5000 psi to 200,000 psi. The electrical connection is either a sealed Bendix connector or lightning-protected amplifier housing. The pressure connection is via a high-pressure ferrule. An FM Approved Intrinsically Safe rating is standard.



MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>								
RANGE		MODEL NO.	PRICE	COMPATIBLE METERS**				
PROTECTED H	IEAD STYLE, S	EALED GAGE P	RESSU	RE, 4 to 20 mA OUTPUT				
0 to 5000 psi	0 to 345 bar	PX91N5-5KSI	\$860	DP41-E, DP25B-E, DP24-E				
0 to 10,000 psi	0 to 689 bar	PX91N5-10KSI	860	DP41-E, DP25B-E, DP24-E				
0 to 15,000 psi	0 to 1034 bar	PX91N5-15KSI	860	DP41-E, DP25B-E*, DP24-E*				
0 to 20,000 psi	0 to 1379 bar	PX91N5-20KSI	860	DP41-E, DP25B-E*, DP24-E*				
0 to 30,000 psi	0 to 2068 bar	PX91N5-30KSI	860	DP41-E, DP25B-E*, DP24-E*				
0 to 35,000 psi	0 to 2413 bar	PX91N5-35KSI	860	DP41-E, DP25B-E*, DP24-E*				
0 to 50,000 psi	0 to 3447 bar	PX91N5-50KSI	860	DP41-E, DP25B-E*, DP24-E*				
0 to 60,000 psi	0 to 4137 bar	PX91N5-60KSI	860	DP41-E, DP25B-E*, DP24-E*				
0 to 80,000 psi	0 to 5516 bar	PX91P5-80KSI	1580	DP41-E, DP25B-E*, DP24-E*				
0 to 100,000 psi	0 to 6895 bar	PX91P5-100KSI	1580	DP41-E, DP25B-E*, DP24-E*				
0 to 120,000 psi	0 to 8274 bar	PX91P5-120KSI	1580	DP41-E, DP25B-E*, DP24-E*				
0 to 150,000 psi	0 to 10,342 bar	PX91P5-150KSI	1800	DP41-E, DP25B-E*, DP24-E*				
0 to 200,000 psi	0 to 13,790 bar	PX91P5-200KSI	1900	DP41-E, DP25B-E*, DP24-E*				

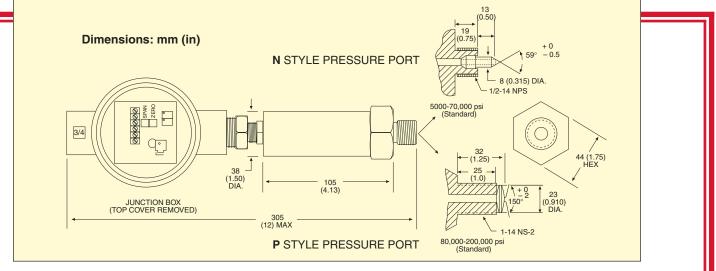
Comes with complete operator's manual. Metric ranges available – consult Engineering. * 4-digit meter. ** See section D for compatible meters.

Ordering Examples: PX91N5-60KSI, 60,000 psi sealed gage model with 4 to 20 mA output, ½-14 NPSM fitting and lightning-protected amplifier housing, **\$860.** PX91P5-80KSI, 80,000 psi sealed gage model with 4 to 20 mA output, 1-14 NS fitting and lightning-protected amplifier housing, **\$1580.**

ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
EE-2455	\$170	Reference Book: The Engineering Handbook

ULTRA-HIGH-PRESSURE TRANSMITTER



SPECIFICATIONS 4 to 20 mA Output ELECTRICAL

Excitation: 12 to 40 Vdc Output: 4 to 20 mA ±10% adj Zero Balance: 4 mA +10% -2% adj Agency Approvals: FM Intrinsically Safe IS/I.II.III/1/CDEFG standard Linearity: ±0.35% FSO ≤75K psi ±0.50% FSO >70K psi Hysteresis: ±0.10% FSO Repeatability: ±0.10% FSO Operating Temp Range: -46 to 121°C (-50 to 250°F)

CUSTOM CONFIGURATIONS

Compensated Temp Range: 17 to 71°C (60 to 160°F) Thermal Effects: Span: 0.005% rdg/°F Zero: 0.005% FSO/°F

Proof Pressure: ≤70K psi: 120% of rated pressure >70K psi: 110% of rated pressure Burst Pressure: ≤70K psi: 150% of rated pressure >70K psi: 120% of rated pressure Wetted Parts:

≤70K psi: 17-4 PH stainless steel
>70K psi: 455 stainless steel

PRESSURE TRANSDUCERS

SPECIALT

Pressure Port: ≤70K psi: ½-14 NPSM (use 0.315" dia. 59° ferrule) >70K psi: 1-14 NS-2 (use 0.910" dia. 150° ferrule)

Electrical Connection: Terminal strip inside lightning-protected amplifier housing

Optional: Bendix PTIH-10-6P or equal **Mating Connector:** PT06F-10-6S (not included)

SERIESPRESSURE PORTELECT CONNEPX91[1][2]	CTION (psi)	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Ranges ≤70,000 psi N = ½-14 NPSM (use with 0.315" dia 59° ferrule) Ranges >70,000 psi P= 1-14 NS-2 (use with 0.910" dia. 150° ferrule) 0 = 3 m (10') PTF \$4.50/ft over 1 = PTIH-10-6P c	3 m (10') 80K connector 100K –	S = Sealed gage 5 V 4 to 20 mA \$860 \$860 \$1580\$1580 -\$1580\$1580	V = mV/V 5T = 0 to 5 Vdc I = 4 to 20 mA	See page B-12 for additional options.
Amplified Models Only Models Only Metric ranges available – consult Engin	ector 150K –), order 200K – 5 \$26.50 tected sing	-\$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 	

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

Ordering Examples: PX91P5-100KSI, 100,000 psi sealed gage pressure range model with 4 to 20 mA output, 1-14 NS-2 fitting and lightningprotected amplifier housing, \$1500. PX91P1-80KS5T, 80,000 psi sealed gage pressure range model with 0 to 5 Vdc output, 1-14 NS-2 fitting and integral connector, \$1500. PT06F-10-6S, mating connector (not included), \$26,50. PX91N0-50KSV-25FT, 50,000 psi sealed gage pressure range model with mV/V output, ½-14 NPSM fitting and 7.6 m (25') cable, \$845 + 67.50 = \$912.50. PX91P0-100KSI, 100,000 psi sealed gage pressure range model with 4 to 20 mA output, 1-14 NS fitting and integral Bendix connector, \$1500. PT06F-10-6S, mating connector (not included), \$26,50.

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