

MODEL PX100

PRESSURE TRANSDUCER

ONYX

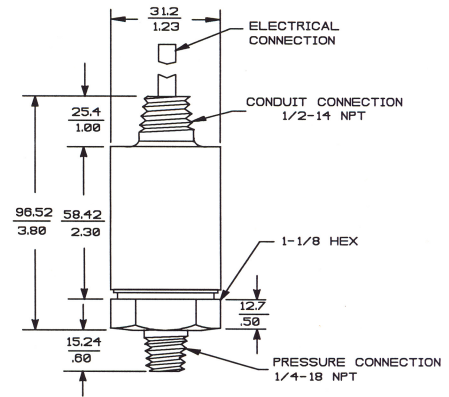
ELECTRONICS

SPECIFICATIONS

PERFORMANCE

Grade	A	B	UNIT
Pressure Ranges	10 to 5000	10 to 5000	PSI
Accuracy (Includes non-linearity hysteresis, and repeatability)	± 0.10	± 0.25	% of Span T.B.
	± 0.05	± 0.125	% of Span BFSL
Temperature Error (Span and Zero Referenced to 75° F (24° C))	Less than ± 1.50%	Less than ± 2.50%	% of Span
Compensated Temperature Range	-20° to +180° F (-28° to +82° C)		
Operating Temperature Range			
Pressure media and Ambient	-40° to +250° F (-40° to +121° C)		
Repeatability	Less than ± 0.04%		% of Span
Hysteresis	Less than ± 0.08%		% of Span

DIMENSIONS



ELECTRICAL

Signal Outputs:
 4 to 20 mA, .5 to 5.5 V dc,
 1 to 5 V dc (Options Available)

Supply Voltage:
 9 to 32 V dc

Supply Current:
 10 mA Max. for voltage output

Supply Voltage Effect:
 Output changes less than .05% of span per 1 volt change in specified supply voltage.

Calibration:
 Zero is fixed and calibrated to within ± 0.50% of span.
 Full scale is fixed and calibrated to within ± 0.50% of span.

Electrical Connections:
 1/2-14 NPT male
 6 pin hermetically sealed (Options Available)

Lead Reversal Protection:
 Improper power supply connection will not damage transducer.

PHYSICAL

Proof Pressure Rating:
 Application of 2 times full scale will not cause any change in performance characteristics.

Burst Pressure Rating:
 Greater than 3 times rated full scale pressure or 7500 psi whichever is less.

Media compatibility:
 Fluids and Gases compatible with 316L ss.

Pressure Connection:
 1/8-27 NPT male
 1/4-18 NPT male or female (Options Available)

Enclosure:
 Entirely welded stainless steel.

Weight:
 9.5 oz. nominal

ORDER INFORMATION

MODEL PX100 XXXX-XXXX-X

PRESSURE RANGE CODES

005 = 0-5 psig/psia	251 = 0-250 psig/psia
010 = 0-10 psig/psia	301 = 0-300 psig/psia
315 = 3-15 psig/psia	501 = 0-500 psig/psia
015 = 0-15 psig/psia	102 = 0-1000 psig/psia
025 = 0-25 psig/psia	152 = 0-1500 psis/psia
030 = 0-30 psig/psia	202 = 0-2000 psis/psia
050 = 0-50 psig/psia	302 = 0-3000 psis/psia
101 = 0-100 psig/psia	502 = 0-5000 psis/psia
151 = 0-150 psig/psia	

PRESSURE TYPE

A = Absolute
 G = Gauge
 S = Sealed

PERFORMANCE GRADE

A = ± 0.05% BFSL (± 0.10% TB)
 B = ± 0.125% BFSL (± 0.25% TB)

ELECTRICAL CONNECTIONS

A = 1/2-14 NPT
 B = 6 pin hermetically sealed
 C = 6 pin with mating connector
 S = Submersible connector

OUTPUTS

1 = 4 to 20 mA 3 = .5 to 5.5 V dc
 2 = 1 to 5 V dc 5 = 1 to 6 V dc

PRESSURE CONNECTIONS

1 = 1/8-27 NPT male 5 = 1/2-14 NPT male
 3 = 1/4-18 NPT male 6 = 1/2-14 NPT female
 4 = 1/4-18 NPT female

WARRANTY

ONYX ELECTRONICS INC. warrants the original purchaser that the Model PX100 Pressure Transducer shall be free from defects in material and workmanship and agrees to either replace or repair free of charge any transducer which is defective within 2 years from date of shipment. The purchaser retains the sole responsibility for the application and installation of the transducer.

Onyx Electronics reserves the right to make changes without notice in materials, specifications, and models.

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