

PT46oXL Pressure Sensors

IDEAL FOR ABRASIVE AND CORROSIVE
MELT PRESSURE APPLICATIONS



Description

The PT460XL Series transducer is a $\pm 1.0\%$ sensor ideal for abrasive and/or corrosive melt pressure applications requiring simple installation, repeatability and reliability. The PT460XL transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT460XL features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of electrical connections.

Features

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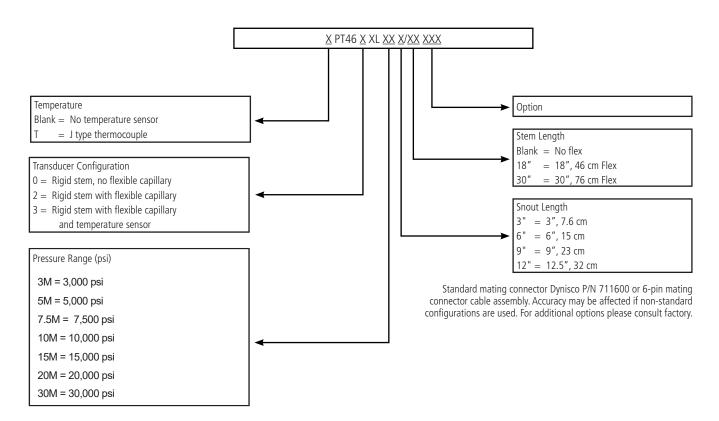
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- Accuracy better than $\pm 1.0\%$
- Inconel diaphragm
- Superior temperature stability
- Patented sensing element
- 0 3,000 to 0 -30,000 psi
- Internal 80% shunt calibration

Performance Characteristics	
Combined Error:	±1.0% FSO, (Including Linearity, Repeatability & Hysteresis)
Repeatability:	±0.2% FS0
Maximum Pressure:	2 x full range or 35,000 psi (whichever is less)
Configuration:	Four active arm bonded Wheatstone bridge strain gage
Bridge Resistance:	Input: 345 Ohms minimum; Output: 350 Ohms ±10%
Output:	3.33 mV/V ±2.0%
Zero Balance:	±10% full scale
Input Voltage:	10 Vdc recommended, 12 Vdc maximum
Internal Shunt Calibration (R-Cal):	80% FSO ±1.0%
Insulation Resistance:	1,000 megohms at 50 Vdc

Temperature & Mechanical Characteristics		
Transducer Diaphragm:		
Maximum Diaphragm Temperature:	750°F (400°C)	
Zero Shift (due to temperature change):	<20 psi/100°F maximum (<36 psi/100°C)	
Electronics Housing:		
Maximum Temperature:	250°F (121°C)	
Zero Shift (due to temperature change):	$\pm 0.05\%$ full scale/°F maximum ($\pm 0.10\%$ full scale/°C)	
Sensitivity Shift (due to temperature change):	$\pm 0.02\%$ full scale/°F maximum ($\pm 0.04\%$ full scale/°C)	
Mounting Torque:	500 inch/lbs. maximum	
Standard Wetted Parts:	Inconel 718	

Ordering Guide for PT460XL Series



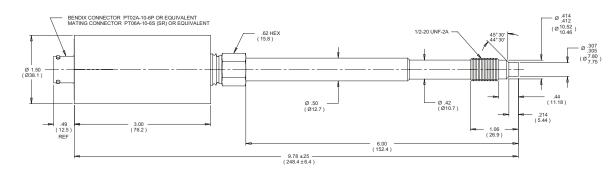


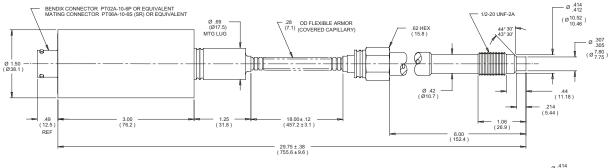
Dimensions

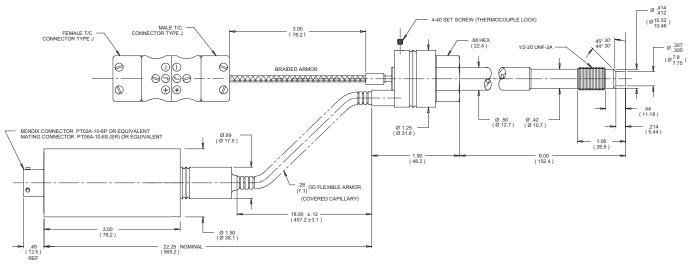
CONNECTOR WIRING	
PIN	FUNCTION
Α	SIGNAL +
В	SIGNAL -
С	EXCITATION +
D	EXCITATION -
E	INTERNAL
F	CAL RESISTOR

NOTES

1. DIMENSIONS ARE IN INCHES (MILLIMETERS)







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