# PT460E Series Pressure Sensors

SIMPLE INSTALLATION,
REPEATABILITY AND RELIABILITY



## **Description**

The Dynisco PT460E Series transducer is a  $\pm 0.5\%$  sensor ideal for melt pressure applications requiring simple installation, repeatability and reliability. The PT460E transducers provide the industry standard 3.33 mV/V signal designed to work with most pressure indicators. The PT460E comes equipped with a six pin bendix connector. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT460E features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of other electrical connections if desired.

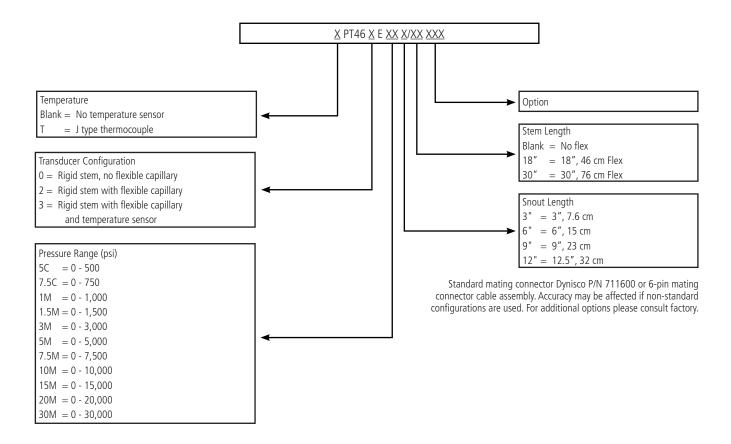
#### **Features**

- Accuracy better than ±0.5%
- DyMax® coated stainless steel wetted parts
- Proven sensor design
- 0 500 to 0 -30,000 psi
- Internal 80% shunt calibration

Performance Characteristics	
Combined Error:	±0.5% FSO, (Including Linearity, Repeatability & Hysteresis)
Repeatability:	±0.2% FS0
Over Pressure:	2 x FSO 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):	25 psi/100°F maximum (45 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:	Dymax® coated 15-5 PH SST

# **Ordering Guide for PT460E Series**



### **Dimensions**

