

PT460E Series



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

Benefits

- Reliable, repeatable pressure measurements
- Superior abrasion resistance
- Good stability and repeatability
- Wide variety of pressure ranges
- Easy to calibrate with local indicator

Description

The PT460E Series transducer is a +/- 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.

Specifications

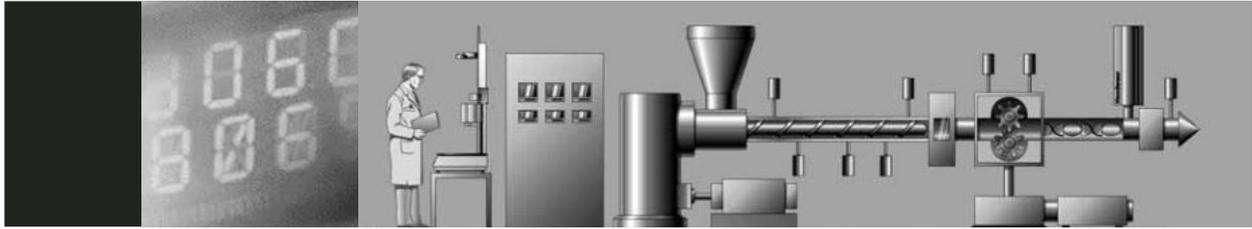
PERFORMANCE CHARACTERISTICS

Output: 3.33 mV/V +/- 2.0%
 Input Voltage: 10 Vdc recommended, 12 Vdc maximum
 Combined Error: +/- 0.5% FSO,
 (Including Linearity, Repeatability & Hysteresis)
 Repeatability: +/- 0.2%FSO
 Configuration: Four-arm bonded foil Wheatstone bridge strain gage
 Bridge Resistance: Input: 345 Ohms minimum
 Output: 350 Ohms +/- 10%
 Over Pressure: 2 X FSO or 35,000 psi whichever is less
 Zero Balance: +/- 10% FSO
 Internal Shunt Calibration (R-Cal): 80% FSO +/- 1%
 Insulation Resistance: 1000 megohms @ 50 Vdc

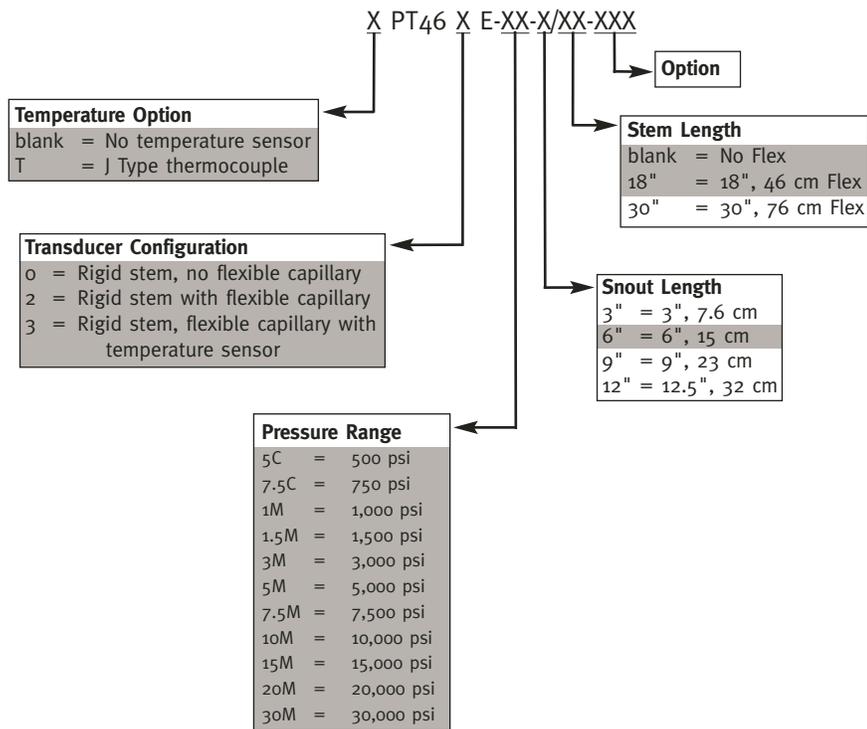
TEMPERATURE & MECHANICAL CHARACTERISTICS

Max Diaphragm Temperature: 750°F (400°C)
 Zero Shift (due to temperature change):
 25 psi/100°F Typical (45 psi/100°C)
 Electronics Operating Temperature: 250°F (121°C)
 Zero Shift Due to Temperature Change:
 +/- 0.05% FS/°F max (+/- 0.10% FS/°C max)
 Sensitivity Shift Due to Temperature Change:
 +/- 0.02% FS/°F max (+/- 0.04% FS/°C max)

Mounting Torque: 500 inch/lbs. maximum
 Standard Wetted Parts: Dymax® coated 15-5 PH SST



Ordering Guide



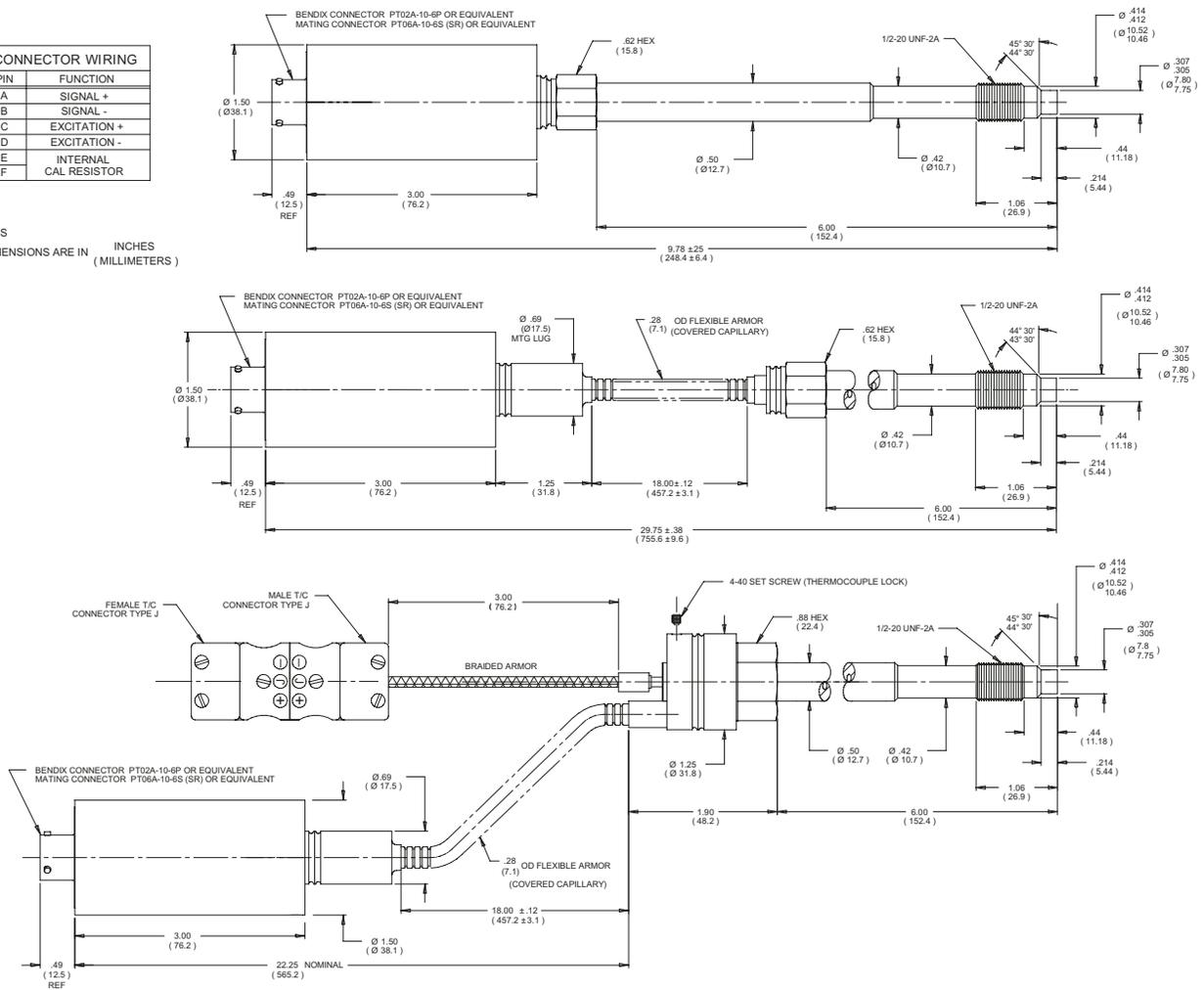
Standard mating connector Dynisco P/N 711600 or 6-pin mating connector cable assembly.

Shaded sections refer to standard configurations. Accuracy may be affected if non-standard configurations are used. For additional options please consult factory.



CONNECTOR WIRING	
PIN	FUNCTION
A	SIGNAL +
B	SIGNAL -
C	EXCITATION +
D	EXCITATION -
E	INTERNAL CAL RESISTOR
F	INTERNAL CAL RESISTOR

NOTES
1. DIMENSIONS ARE IN INCHES (MILLIMETERS)



All dimensions are inches (mm).