

## PT460E Series



### Features

- Accuracy better than  $\pm 0.5\%$
- Dymax<sup>®</sup> 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  $\pm 0.5\%$  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.

### Specifications

#### PERFORMANCE CHARACTERISTICS

**Output:** 3.33 mV/V  $\pm 2.0\%$

**Input Voltage:** 10 Vdc recommended, 12 Vdc maximum

**Combined Error:**  $\pm 0.5\%$  FSO,  
(Including Linearity, Repeatability & Hysteresis)

**Repeatability:**  $\pm 0.2\%$  FSO

**Configuration:** Four-arm bonded foil Wheatstone bridge strain gage

**Bridge Resistance:** Input: 345 Ohms minimum  
Output: 350 Ohms  $\pm 10\%$

**Over Pressure:** 2 X FSO or 35,000 psi whichever is less

**Zero Balance:**  $\pm 10\%$  FSO

**Internal Shunt Calibration (R-Cal):** 80% FSO  $\pm 1\%$

**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:**

$\pm 0.05\%$  FS/°F max ( $\pm 0.10\%$  FS/°C max)

**Sensitivity Shift Due to Temperature Change:**

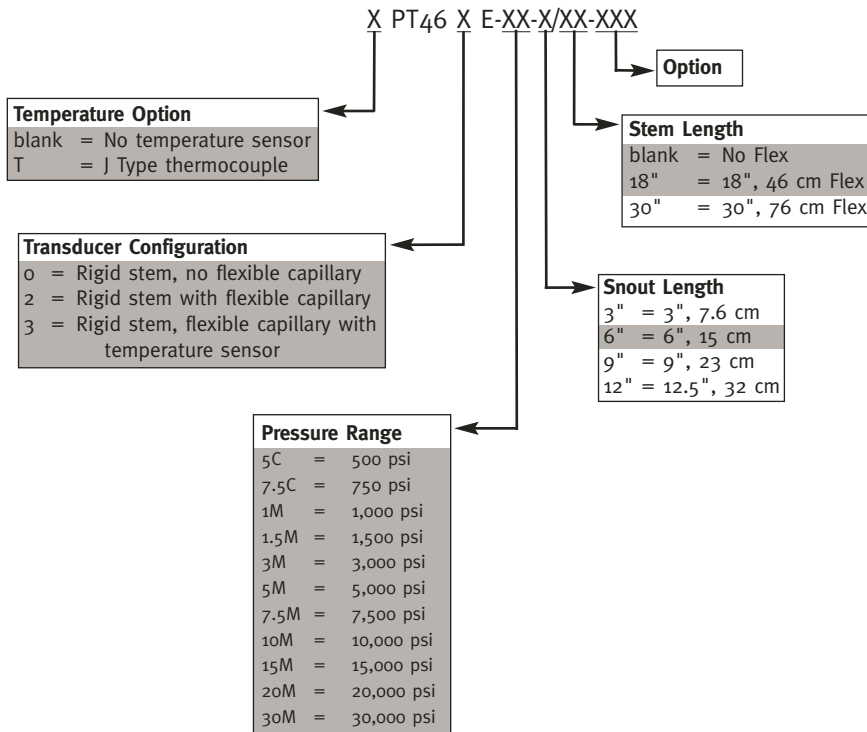
$\pm 0.02\%$  FS/°F max ( $\pm 0.04\%$  FS/°C max)

**Mounting Torque:** 500 inch/lbs. maximum

**Standard Wetted Parts:** Dymax<sup>®</sup> 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.

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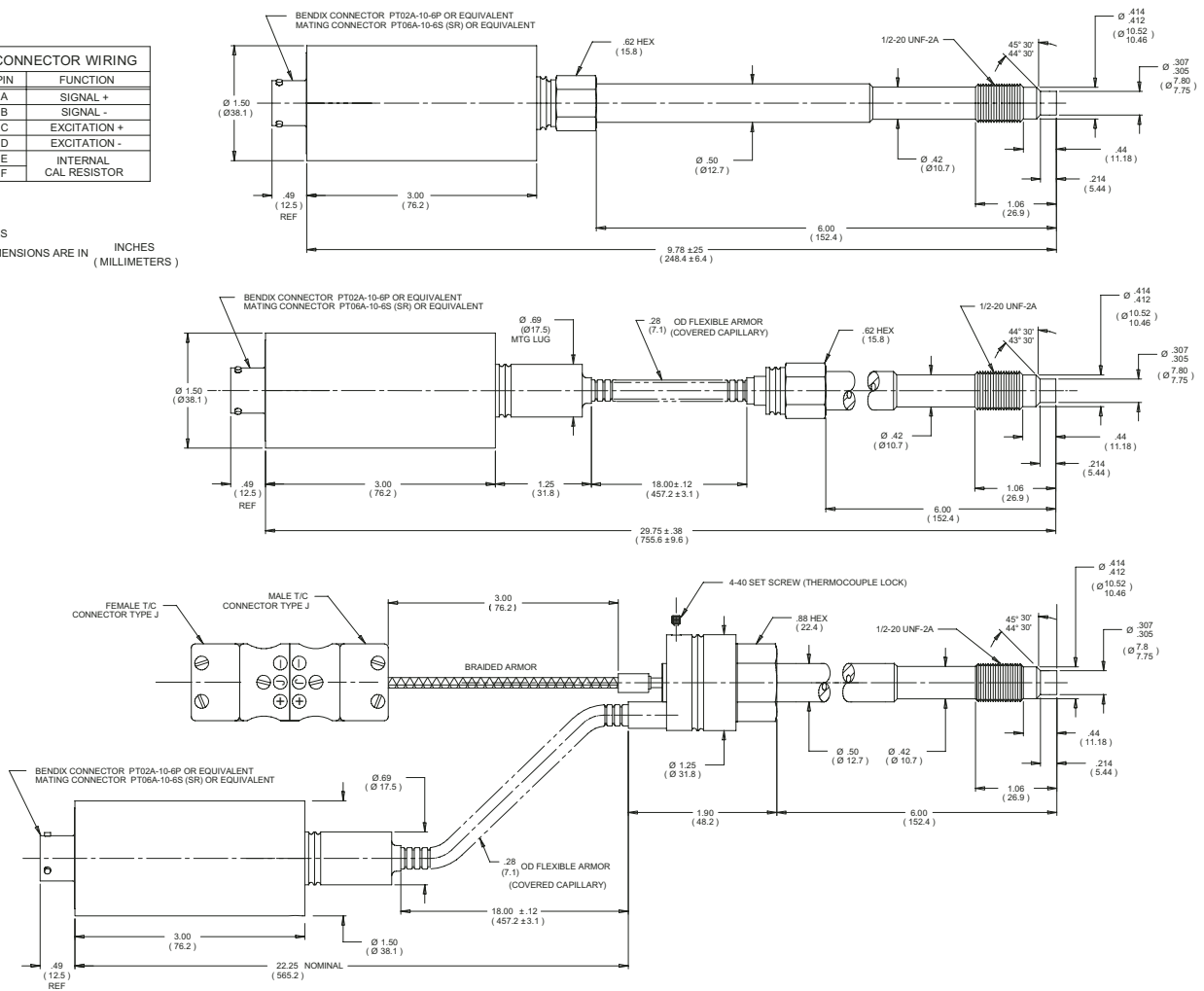
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CONNECTOR WIRING	
PIN	FUNCTION
A	SIGNAL +
B	SIGNAL -
C	EXCITATION +
D	EXCITATION -
E	INTERNAL CAL RESISTOR
F	INTERNAL CAL RESISTOR

NOTES  
1. DIMENSIONS ARE IN INCHES (MILLIMETERS)



All dimensions are inches (mm).