

DYNISCO MODEL PT460E

The Classic Rigid Stem Melt Pressure Transducer

Description

The model PT460E transducer has become a standard in the polymer industry. It is ideal for general purpose melt pressure measurements requiring simple installation, good accuracy, repeatability and reliability.

Features

- Better than $\pm 0.5\%$ accuracy
- 3.33 mV/V FSO
- Internal 80% shunt calibration
- All stainless steel wetted parts
- 0 - 500 to 0 - 30,000 psi
- Good stability and repeatability

Benefits

- Reliable pressure measurement
- Standard low level output
- Easy set - up
- Corrosion resistant
- Choice of pressure ranges
- Reliable measurement



Specifications

Performance Characteristics

Ranges (psi): 0 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000, 0 - 15,000, 0 - 20,000, 0 - 30,000
Accuracy: $\pm 0.5\%$ FSO
Repeatability: $\pm 0.2\%$ FSO

Mounting torque: 500 inch - lbs. maximum
Maximum pressure: 2 x full range or 35,000 psi (whichever is less)
Material in contact with pressure media: 15 - 5 PH stainless steel, Armoloy coated
Weight: 1 lb.

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage
Bridge resistance: *Input:* 345 Ohms minimum; *Output:* 350 Ohms $\pm 10\%$
Full scale output: 3.33 mV/V $\pm 2\%$
Zero balance: 10% full scale

Excitation: 10 Vdc recommended, 12 Vdc maximum
Internal shunt calibration (R-Cal): 80% FSO $\pm 1\%$
Insulation resistance: 1,000 megohms at 50 Vdc

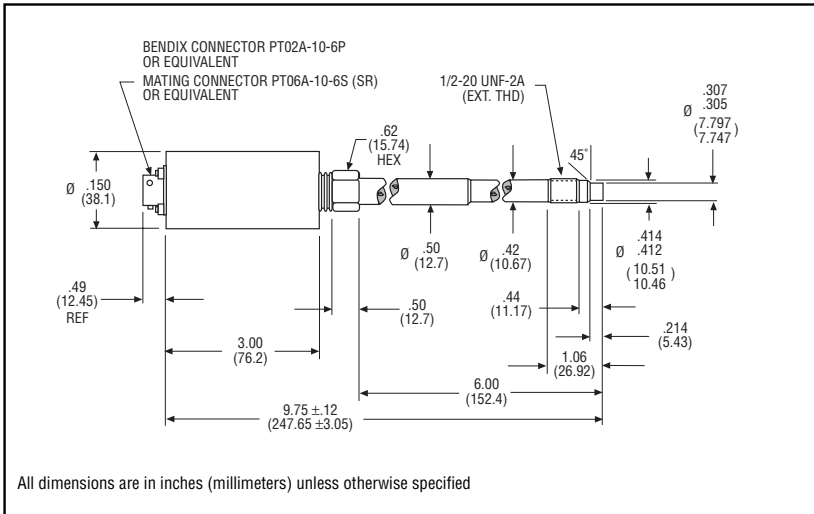
Temperature Characteristics

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)

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Ordering Guide

Model	Pressure Range (psi)		Rigid Stem	
	Code	Range	Code	Length
PT460E	5C	0 - 500		
	7.5C	0 - 750	3	3"
	1M	0 - 1,000		
	1.5M	0 - 1,500	4	4"
	3M	0 - 3,000		
	5M	0 - 5,000	6	6"
	7.5M	0 - 7,500		
	10M	0 - 10,000	9	9"
	15M	0 - 15,000		
	20M	0 - 20,000	12	12"
30M	0 - 30,000			

Ordering Example: PT460E - 10M - 6

- Mating connector P/N711600 or 6 - pin cable assembly sold separately. Refer to Options and Accessories Section.
- Transducer Options: Refer to Options and Accessories Section for complete information on stem length, transducer diaphragm, diaphragm and thread coatings, electrical connectors and fill media.

Delivery

- Express delivery. Call for delivery information on other configurations. Refer to Options and Accessories Section for additional delivery time on products with added options.