

DYNISCO MODEL PT462E

The Classic Flexible Stem Melt Pressure Transducer

Description

Model PT462E has an 18" flexible stem between its rigid stem and the electronics housing to increase thermal isolation. It is the ideal choice for applications requiring good repeatability, accuracy and economy, and is widely accepted by OEMs throughout the world.

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
- Flexible stem

Benefits

- Reliable pressure measurement
- Standard low level output
- Easy set - up
- Corrosion resistant
- Choice of pressure ranges
- Reliable measurement
- Easy to install and ideal for high local temperatures



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: 1.5 lbs.

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage

Bridge resistance: *Input:* 345 Ohms minimum; *Output:* 350 Ohms ± 10

Full scale output: 3.33 mV/V $\pm 2\%$

Zero balance: $\pm 10\%$ full scale

Excitation: 10 Vdc recommended, 12 Vdc maximum

Internal shunt calibration (R-Cal): 80% FSO $\pm 1.0\%$

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:

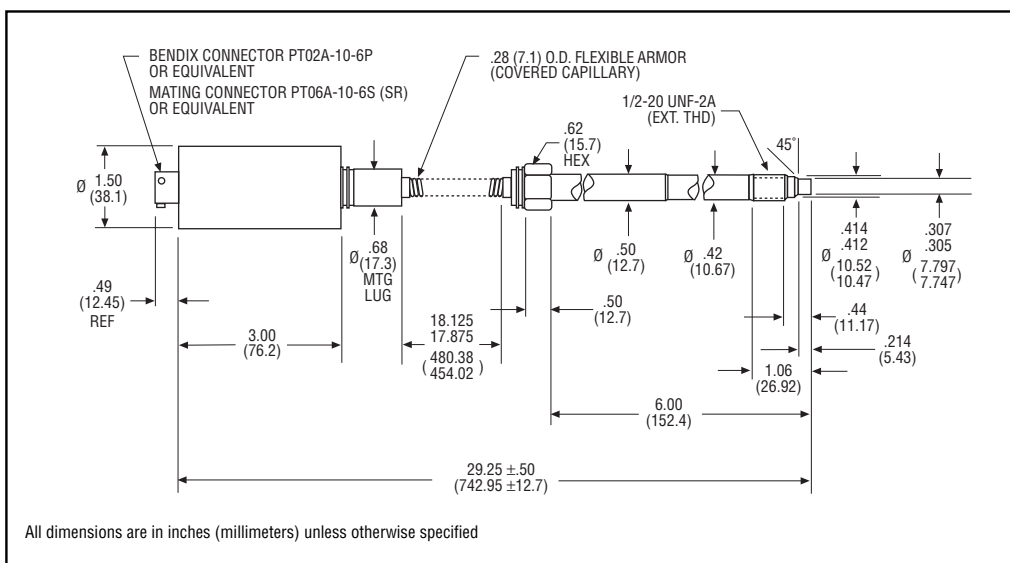
Maximum temperature: 250°F (121°C)

Zero shift due to temperature change: 0.05% full scale/°F maximum (0.10% full scale/°C)

Sensitivity shift due to temperature change: 0.02% full scale/°F maximum (0.04% full scale/°C)

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Ordering Guide

Model	Pressure Range (psi)		Rigid Stem		Flexible Stem	
	Code	Range	Code	Length	Code	Length
PT462E	5C	0 - 500				
	7.5C	0 - 750				
	1M	0 - 1,000				
	1.5M	0 - 1,500	3	3"		
	3M	0 - 3,000	4	4"		
	5M	0 - 5,000	6	6"	18	18"
	7.5M	0 - 7,500	9	9"		
	10M	0 - 10,000	12	12"		
	15M	0 - 15,000				
	20M	0 - 20,000				
30M	0 - 30,000					

Ordering Example: PT462E - 3M - 6 / 18

- 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.