

DYNISCO MODEL PT462E-M10

Small Diameter Diaphragm Melt Pressure Transducer

Description

Model PT462E - M10 melt pressure transducer utilizes a small 6mm sensing element for space restricted areas making it the ideal choice for small extruders and rheometers. Model PT462E - M10 incorporates an 18" flexible stem to isolate the electronics housing from the high process temperatures.

Features

- 6 mm sensing element
- Internal 80% shunt calibration
- 0 - 5,000 to 0 - 10,000 psi
- Good stability and repeatability
- Flexible stem

Benefits

- Fits in space restricted areas, reduces mounting hole dead space
- Easy set - up
- Choice of pressure ranges
- Reliable pressure measurement
- Easy to install and ideal for high local temperatures



Specifications

Performance Characteristics

Ranges (psi): 0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy: $\pm 1.0\%$ FSO
Repeatability: $\pm 0.2\%$ FSO
Mounting torque: 500 inch - lbs. maximum

Maximum pressure: 2 x full range
Material in contact with pressure media: Inconel 718
Weight: 1.5 lbs.

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 $\pm 2.0\%$

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

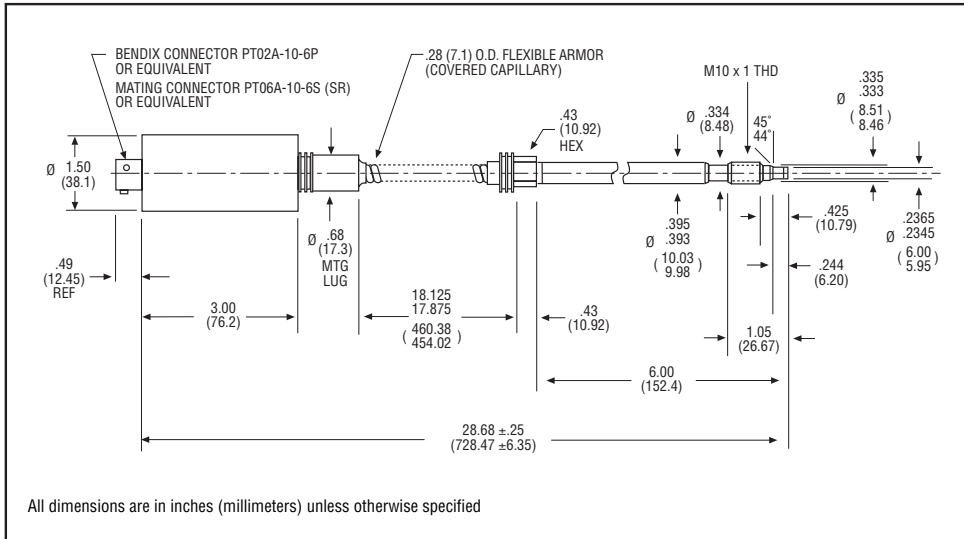
Temperature Characteristics

Transducer diaphragm:
Maximum diaphragm temperature: 750°F (400°C)
Zero shift due to temperature change: 20 psi/100°F maximum (37 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 - M10	5M	0 - 5,000	3	3"	18	18"
	7.5M	0 - 7,500	4	4"		
	10M	0 - 10,000	6	6"		
			9	9"		
			12	12"		

Ordering Example: PT462E - M10 - 5M - 6/18

- Mating connector P/N711600 or 6 - pin cable assembly sold separately.

Delivery

Please call for specific delivery information.