PT462E-M10
Pressure Sensors

Ideal Choice For Small Extruders And Rheometers

Description

Dynisco''s PT462E-M10 melt pressure transducer utilizes a small 6mm sensing diaphragm for space restricted areas making it the ideal choice for small extruders and rheometers. The PT462E-M10 provides simple installation, high accuracy (1%), repeatability and reliability. Standard transducers are supplied with a DyMax® coated diaphragm for increased wear resistance and longevity. A 6-pin bendix-style connector is used for easy connect and disconnect.
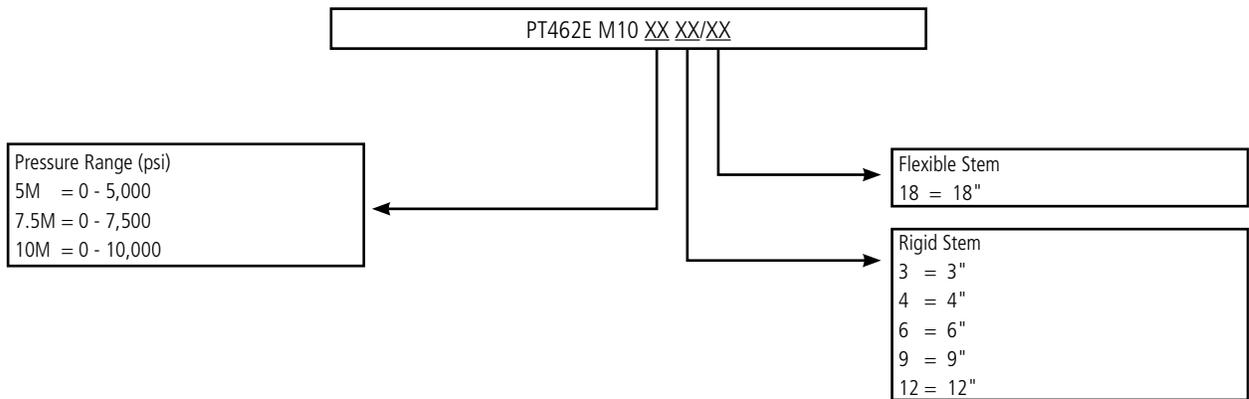
Features

- 6 mm sensing diaphragm

- 3.33 mV/V full scale output

- Accuracy of better than ±1%

- Pressure ranges from 0 - 5,000 psi to 0 - 10,000 psi

- Good stability and repeatability

- Flexible stem offers greater thermal isolation and mounting ease

- Internal 80% shunt calibration

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Performance Characteristics

Ranges (psi):	0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy:	±1.0% FSO
Repeatability:	±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

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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 ±2.0%
Zero Balance:	±10% full scale
Excitation:	10 Vdc recommended, 12 Vdc maximum
Internal Shunt Calibration (R-Cal):	80% FSO ±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)

Ordering Guide for PT462E-M10

PT462E M10 XX XX/XX

Pressure Range (psi)
5M   = 0 - 5,000
7.5M = 0 - 7,500
10M = 0 - 10,000

Flexible Stem
18 = 18"

Rigid Stem
3 = 3"
4 = 4"
6 = 6"
9 = 9"
12 = 12"

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

Dimensions
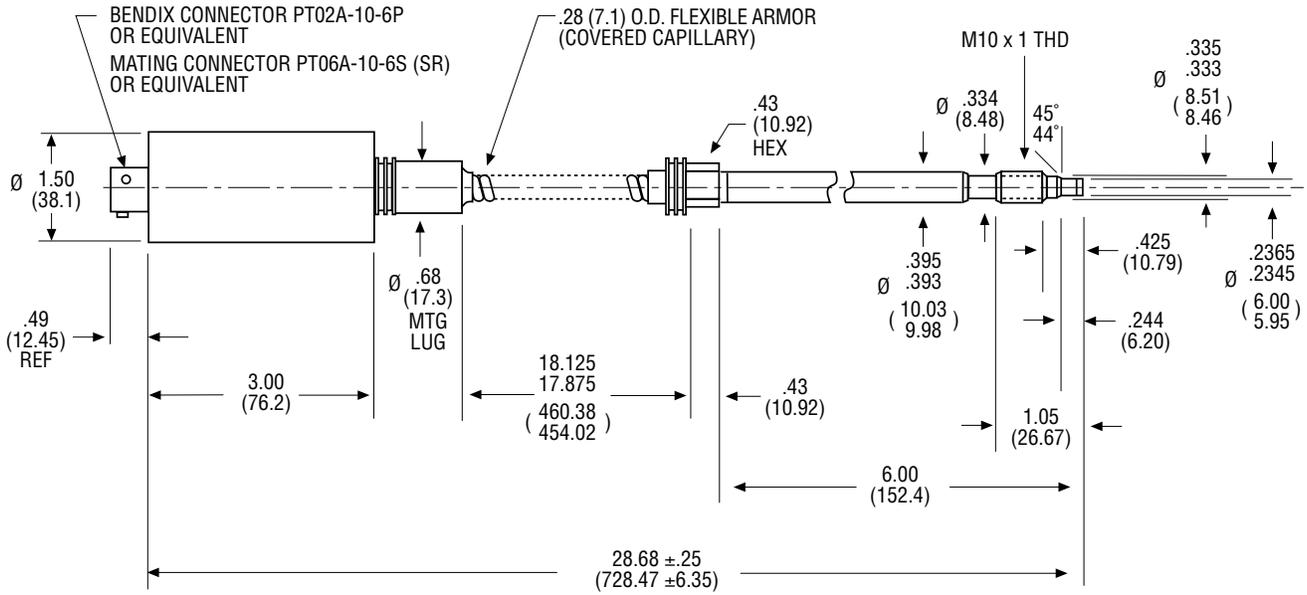
All dimensions are in inches (millimeters) unless otherwise specified