

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.

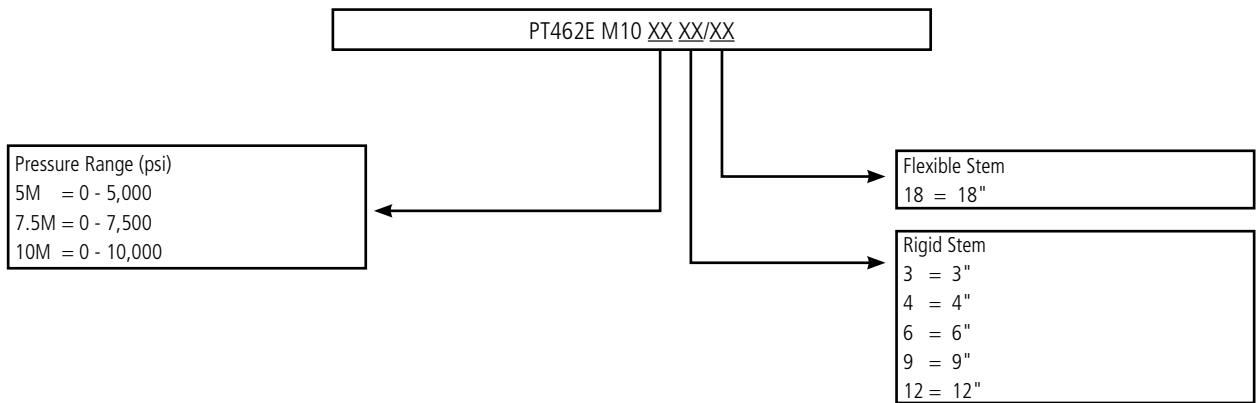
Features

- 6 mm sensing diaphragm
- 3.33 mV/V full scale output
- Accuracy of better than $\pm 1\%$
- 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

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	
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

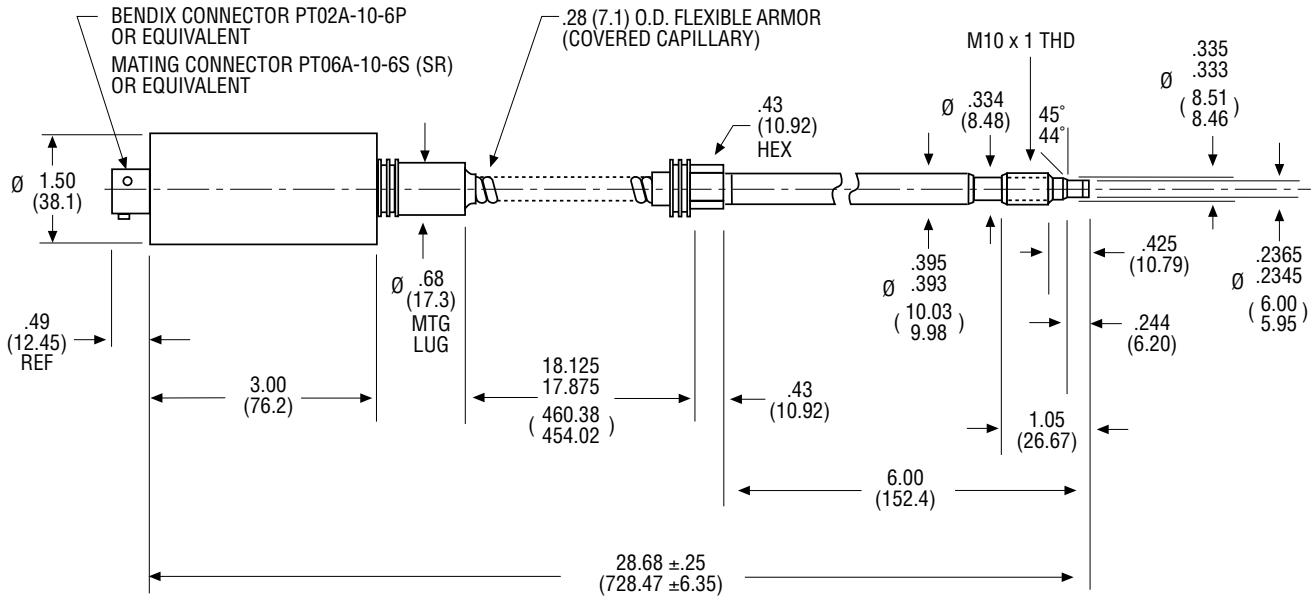
Temperature Characteristics	
Transducer Diaphragm:	
Maximum Diaphragm Temperature:	750°F (400°C)
Zero Shift due to Temperature Change:	20 psi/100°F maximum (37 psi/100°C)
Electronics Housing:	
Maximum Temperature:	250°F (121°C)
Zero Shift due to Temperature Change:	0.05% full scale/°F maximum (0.10% 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



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



All dimensions are inches (mm) unless otherwise specified.
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 Refer to www.dynisco.com for access to Operator Manual and other support documentation.
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