

# 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.

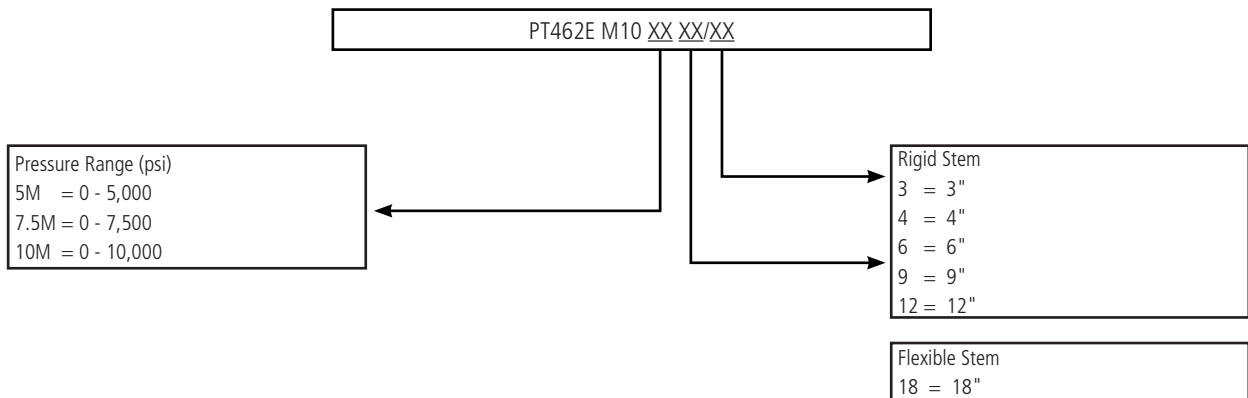
## Features

- 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,<br>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;<br>Output: 350 Ohms ±10%    |
| Full Scale Output:                       | 3.33 mV/V ±2.0%                                      |
| Zero Balance:                            | ±10% full scale                                      |
| Excitation:                              | 10 Vdc recommended,<br>12 Vdc maximum                |
| Internal Shunt Calibration (R-Cal):      | 80% FSO ±1.0%  |
| Insulation Resistance:                   | 1,000 megohms at 50 Vdc                              |

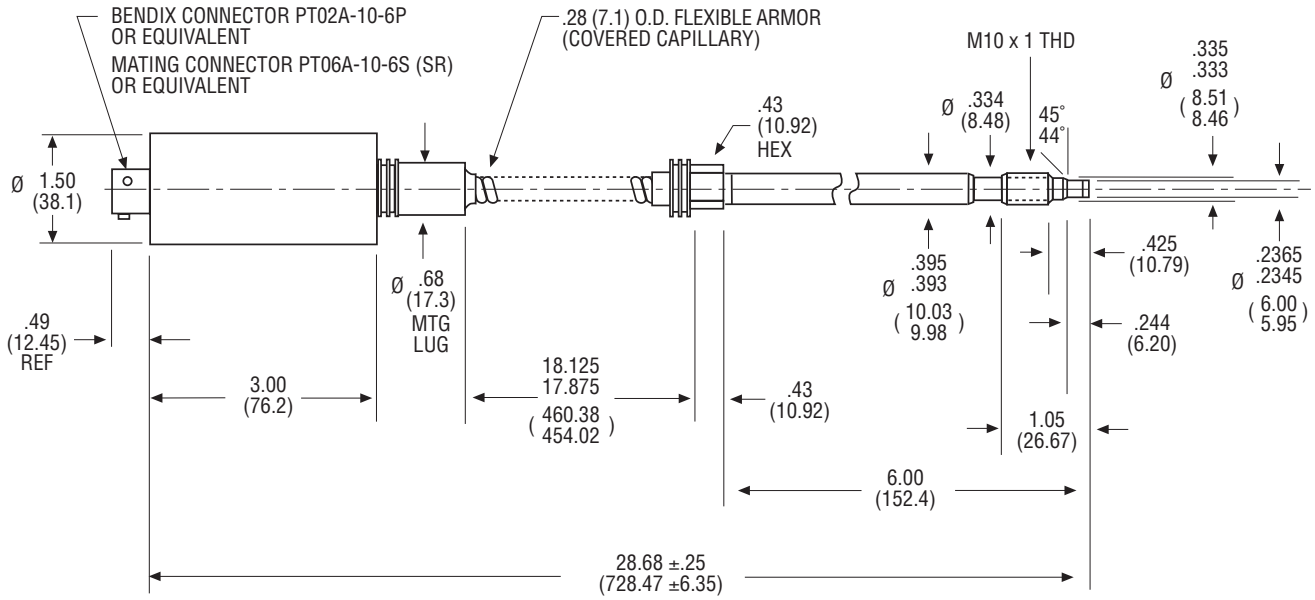
| Temperature Characteristics                  |  |
|--|--|
| <b>Transducer Diaphragm:</b>                 |  |
| Maximum Diaphragm Temperature:               | 750°F (400°C)  |
| Zero Shift due to Temperature Change:        | 20 psi/100°F maximum<br>(37 psi/100°C)               |
| <b>Electronics Housing:</b>                  |  |
| Maximum Temperature:                         | 250°F (121°C)  |
| Zero Shift due to Temperature Change:        | 0.05% full scale/°F maximum<br>(0.10% full scale/°C) |
| Sensitivity Shift due to Temperature Change: | 0.02% full scale/°F maximum<br>(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



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 Refer to [www.dynisco.com](http://www.dynisco.com) for access to Operator Manual and other support documentation.  
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