

# DYNISCO MODEL EPR3

## Enhanced Push-Rod Design Melt Pressure Transducer

### Description

Dynisco's model EPR3 high - temperature melt pressure transducer is offered as an alternative to its PT420 and PT460 series. The push - rod design is suitable for applications where the use of a filled system may not be desirable, such as the extrusion of food and medical products and the manufacture of photographic film. Model EPR3 is available in pressure ranges from 0 - 1,500 through 0 - 10,000 psi.

### Features

- Better than  $\pm 0.5\%$  accuracy
- Push - rod design
- Measures up to 750°F (400°C)
- All stainless steel, wetted parts
- Internal 80% shunt calibration

### Benefits

- Reliable pressure measurement
- Ideal for medical, food and photographic film extrusion
- Ideal for high temperature processes
- Corrosion resistant
- Easy set - up

Stocked, Distributed, and Supported by

**SENSORS**  
**INCORPORATED**

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## Specifications

### Performance Characteristics

**Ranges (psi):** 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000  
**Accuracy:**  $\pm 0.5\%$  FSO  
**Repeatability:**  $\pm 0.2\%$  FSO  
**Mounting torque:** 100 inch - lbs. recommended, 250 inch - lbs. maximum

**Maximum pressure:** 150% full scale  
**Material in contact with pressure media:** 17 - 4 PH stainless steel, Dymax<sup>®</sup> coated  
**Weight:** 13.25 oz.

### 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:** 3.0 mV/V  $\pm 2\%$   
**Zero balance:**  $\pm 5\%$  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

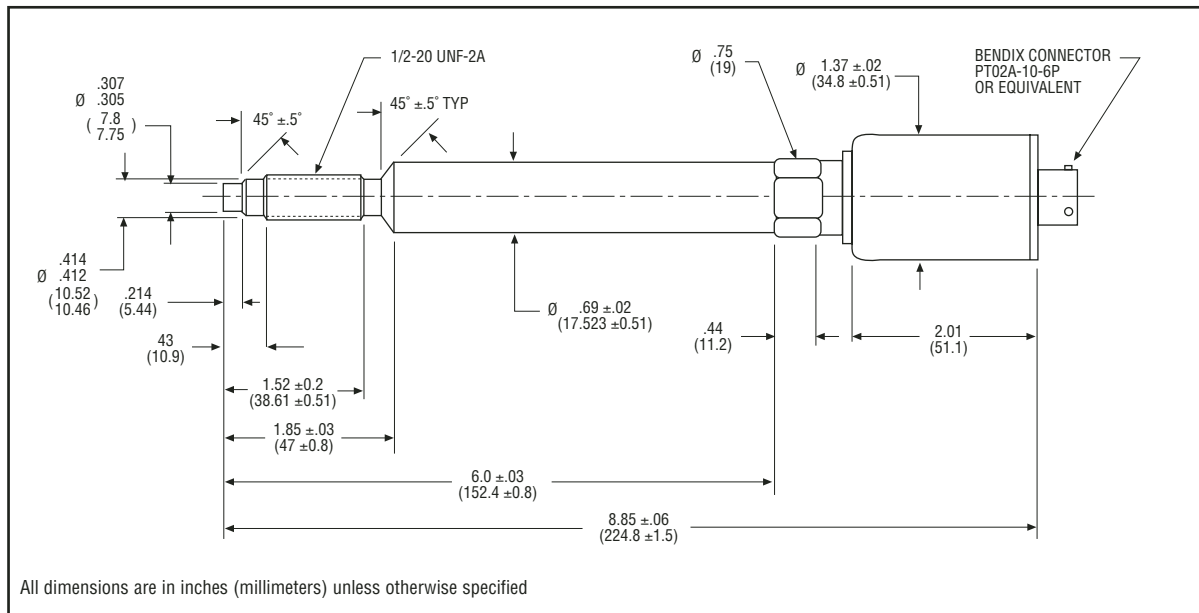
**Transducer diaphragm:**  
*Maximum diaphragm temperature:* 750°F (400°C)  
*Zero shift due to temperature change:*  $\pm 1.0\%$  full scale/100°F ( $\pm 2.0\%$  full scale/100°C)  
*Sensitivity shift due to temperature change:*  $\pm 1.0\%$  full scale/100°F ( $\pm 2.0\%$  full scale/100°C)

**Electronics housing:**  
*Maximum temperature:* 250°F (121°C)  
*Zero shift due to temperature change:*  $\pm 1.0\%$  full scale/100°F ( $\pm 2.0\%$  full scale/100°C)  
*Sensitivity shift due to temperature change:*  $\pm 1.0\%$  full scale/100°F ( $\pm 2.0\%$  full scale/100°C)

NEW  
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COATING

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### Ordering Guide

| Model | Pressure Range (psi) |            | Rigid Stem |        |
|-------|----------------------|------------|------------|--------|
|       | Code                 | Range      | Code       | Length |
| EPR3  | 1.5M                 | 0 - 1,500  | 6          | 6"     |
|       | 3M                   | 0 - 3,000  |            |        |
|       | 5M                   | 0 - 5,000  |            |        |
|       | 7.5M                 | 0 - 7,500  |            |        |
|       | 10M                  | 0 - 10,000 |            |        |

Ordering Example: EPR3 - 3M - 6

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

### Delivery

- Express delivery. Call for delivery information on other configurations.