

DYNISCO MODELS EPR5 & EPR6

Amplified Output, Enhanced Push-Rod Design Melt Pressure Transmitters

Description

Dynisco models EPR5 and EPR6 high - temperature melt pressure transducers feature a built - in amplifier to provide a 0 to 5 Vdc (EPR5) or 0 to 10 Vdc (EPR6) output to a DCS or computer system. An alternative to Dynisco's 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. These models are 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
- 0 - 5 Vdc or 0 - 10 Vdc outputs

Benefits

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



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™ coated

Weight: 1.3 lbs.

New
Extended
Life
Coating

Electrical Characteristics

EPR5:

Output: 0 to 5 Vdc, 4 - wire

Input voltage: 11 to 32 Vdc

Load resistance: 2,000 Ohms minimum

Zero adjustment: $\pm 10\%$

Span adjustment range: $\pm 5\%$

Shunt calibration: 80% $\pm 1.0\%$ FSO

EPR6:

Output: 0 to 10 Vdc, 4 - wire

Input voltage: 16 to 32 Vdc

Load resistance: 2,000 Ohms minimum

Zero adjustment: $\pm 10\%$

Span adjustment range: $\pm 5\%$

Shunt calibration: 80% $\pm 1.0\%$ FSO

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:

Operating temperature range: -20°F to +160°F (-29°C to +71°C)

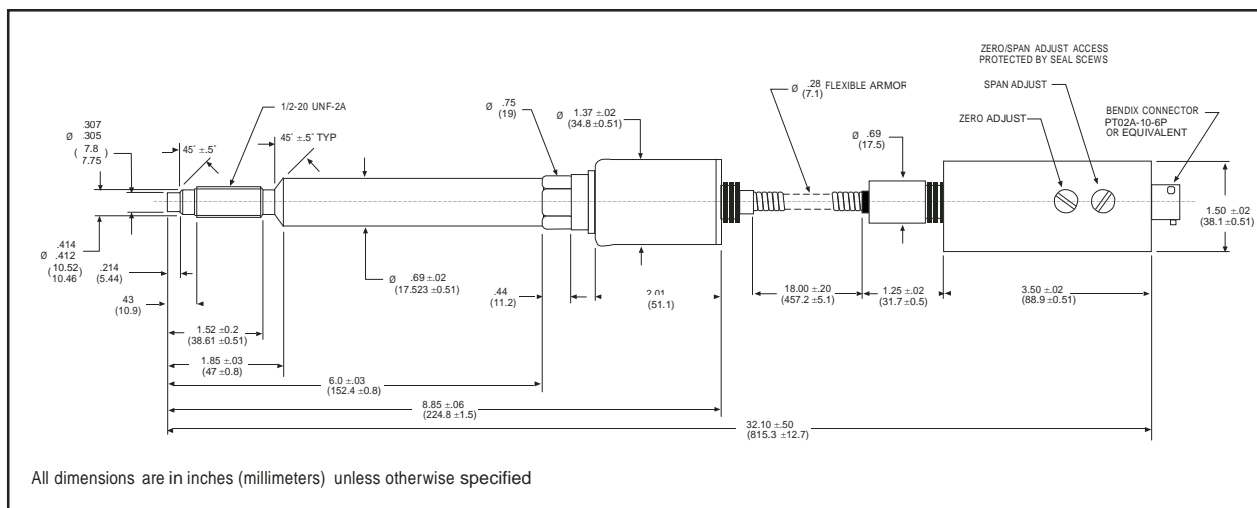
Temperature effects over a compensated range of +30°F to +160°F (-1°C to +71°C):

Temperature effect on zero: $\pm 3.0\%$ of full scale/100°F maximum

Temperature effect on sensitivity: $\pm 2.0\%$ of full scale/100°F

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Ordering Guide

| Model | Pressure Range (psi) | | Rigid Stem | | Flexible Stem | |
|--------------------|----------------------|------------|------------|--------|---------------|--------|
| | Code | Range | Code | Length | Code | Length |
| EPR5 (0 to 5 Vdc) | 1.5M | 0 - 1,500 | 9 | 9' | | |
| | 5M | 0 - 5,000 | | | | |
| EPR6 (0 to 10 Vdc) | 7.5M | 0 - 7,500 | | | | |
| | 10M | 0 - 10,000 | | | | |

Ordering Example: EPR5 - 3M - 6/18

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



<http://www.aptus-hmi.com/>

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