Dynisco

EPR3 Push Rod Melt Pressure Sensors

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

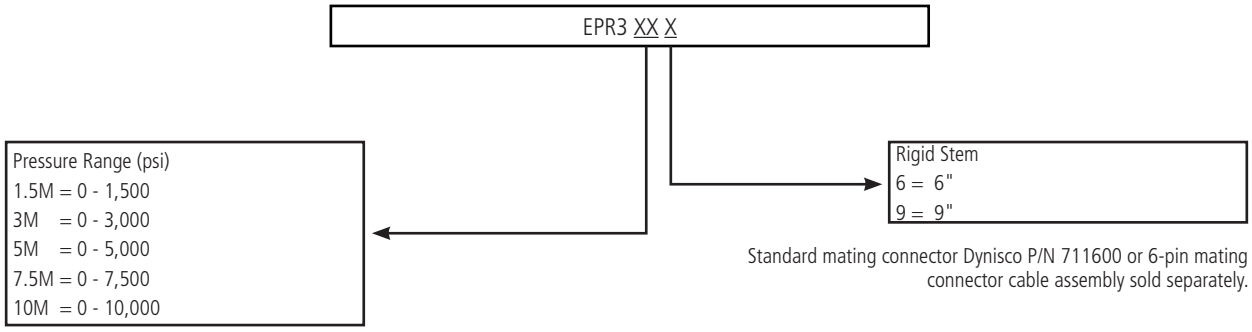
- Better than ±0.5% accuracy
- Push - rod design
- Measures up to 750°F (400°C)
- All stainless steel, wetted parts
- Internal 80% shunt calibration

ICS Schneider Messtechnik GmbH
Briesestraße 59
D-16562 Hohen Neuendorf / OT Bergfelde
Tel.: 03303 / 50 40 66
Fax.: 03303 / 50 40 68
info@ics-schneider.de
www.ics-schneider.de

Performance Characteristics	
Ranges (psi):	0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000
Accuracy:	±0.5% FSO
Repeatability	±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:	13.25 oz.
Electrical Characteristics	
Configuration:	Four active arm bonded Wheatstone bridge strain gage
Bridge Resistance:	Input: 345 Ohms minimum; Output: 350 Ohms ±10%
Excitation:	10 Vdc recommended, 12 Vdc maximum
Internal Shunt Calibration (R-Cal):	80% FSO ±1.0%
Insulation Resistance:	1,000 megohms at 50 VDC

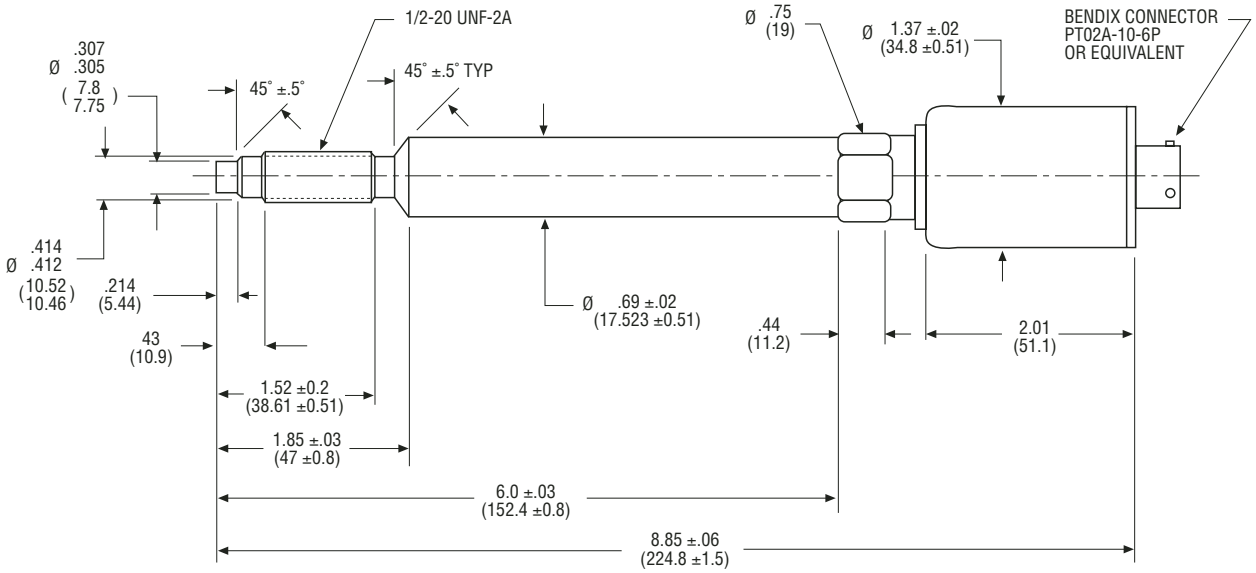
Temperature Characteristics	
Transducer Diaphragm:	
Maximum Diaphragm Temperature:	750°F (400°C)
Zero Shift Due To Temperature Change:	±1.0% full scale/100°F (±2.0% full scale/100°C)
Sensitivity Shift Due To Temperature Change:	±1.0% full scale/100°F (±2.0% full scale/100°C)
Electronics Housing:	
Maximum Temperature:	250°F (121°C)
Zero Shift Due To Temperature Change:	±1.0% full scale/100°F (±2.0% full scale/100°C)
Sensitivity Shift Due To Temperature Change:	±1.0% full scale/100°F (±2.0% full scale/100°C)

Ordering Guide for EPR3



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

ICS Schneider Messtechnik GmbH
Briesestraße 59
D-16562 Hohen Neuendorf / OT Bergfelde
Tel.: 03303 / 50 40 66
Fax.: 03303 / 50 40 68
info@ics-schneider.de
www.ics-schneider.de