

# DYNISCO MODEL EPR3 W/TC

*Enhanced Push-Rod Design Melt Pressure Transducer with Thermocouple*

## Description

Dynisco's model EPR3 temperature and pressure transducer is offered as an alternative to the TPT432 and TPT463 models. 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. This model 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
- Integral thermocouple
  
- RTD and optional thermocouples

## Benefits

- Reliable pressure measurement
- Ideal for medical, food and photographic film extrusion
- Ideal for high temperature processes
- Corrosion resistant
- Easy set - up
- Simultaneously measure pressure/temperature in one location
- Allows for temperature measurement alternatives



## 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:** 1.5 lbs.  
**Thermocouple:** Type J

### 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

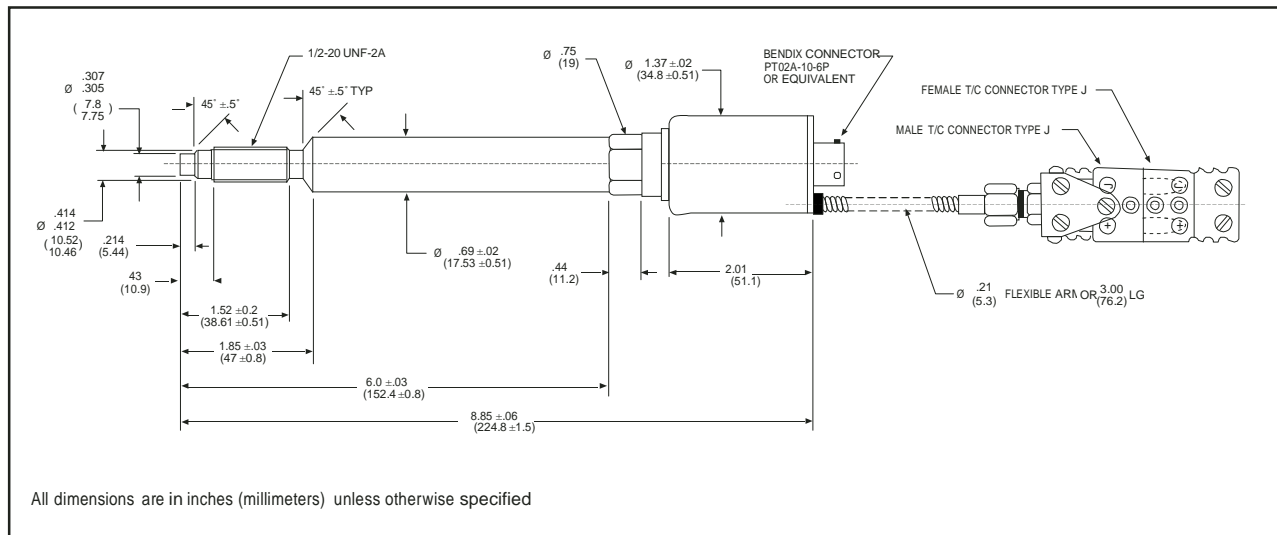
### Temperature Characteristics

**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)

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## Ordering Guide

Model	Pressure Range (psi)		Rigid Stem		Thermocouple	
	Code	Range	Code	Length	Code	Type
EPR3	1.5M	0 - 1,500			TC	J
	3M	0 - 3,000	6	6"		
	5M	0 - 5,000	9	9"		
	7.5M	0 - 7,500				
	10M	0 - 10,000				

Ordering Example: EPR3 - 5M - 6 - TC

- Mating connector P/N711600 or 6 - pin cable assembly sold separately. Consult factory for optional RTD and thermocouples

## Delivery

Please call for specific delivery information.



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

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