

# DYNISCO MODEL TPT463E

## The Classic Flexible Stem Melt Pressure Transducer with Thermocouple

### Description

Model TPT463E combines a removable Type J thermocouple with the classic PT462E pressure sensor to allow the user to make pressure and temperature measurements at a single point. It has a flexible stem for ease of mounting.

### Features

- Better than  $\pm 0.5\%$  accuracy
- 3.33 mV/V FSO
- Internal 80% shunt calibration
- All stainless steel wetted parts
- 0 - 500 to 0 - 30,000 psi
- Good stability and repeatability
- Flexible stem
- Integral thermocouple
  
- Removable Type J thermocouple
- RTD and optional thermocouples available

### Benefits

- Reliable pressure measurement
- Standard low level output
- Easy set - up
- Corrosion resistant
- Choice of pressure ranges
- Reliable measurement
- Easy to install, ideal for high local temperature
- Simultaneously measure pressure/temperature in one location
- On - line repair/replacement
- Temperature measurement alternatives



## Specifications

### Performance Characteristics

**Ranges (psi):** 0 - 500, 0 - 750, 0 - 1,000, 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000, 0 - 15,000, 0 - 20,000, 0 - 30,000  
**Accuracy:**  $\pm 0.5\%$  FSO  
**Repeatability:**  $\pm 0.2\%$  FSO  
**Mounting torque:** 500 inch - lbs. maximum

**Maximum pressure:** 2 x full range or 35,000 psi (whichever is less)  
**Material in contact with pressure media:** 15 - 5 PH stainless steel, Armoloy coated  
**Weight:** 2.5 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:** 3.33 mV/V  $\pm 2\%$   
**Zero balance:**  $\pm 10\%$  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

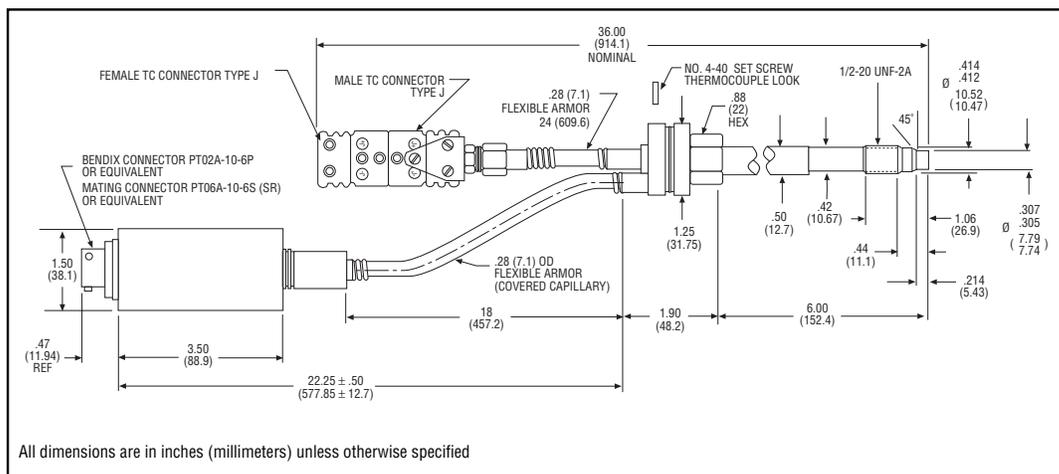
### Temperature Characteristics

**Transducer diaphragm:**  
*Maximum diaphragm temperature:* 750°F (400°C)  
*Zero shift due to temperature change:* 25 psi/100°F maximum (45 psi/100°C)

**Electronics housing:**  
*Maximum temperature:* 250°F (121°C)  
*Zero shift due to temperature change:*  $\pm 0.05\%$  full scale/°F maximum ( $\pm 0.10\%$  full scale/°C)  
*Sensitivity shift due to temperature change:*  $\pm 0.02\%$  full scale/°F maximum ( $\pm 0.04\%$  full scale/°C)

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## Ordering Guide

Model	Pressure Range (psi)		Rigid Stem		Flexible Stem	
	Code	Range	Code	Length	Code	Length
TPT463E	5C	0 - 500				
	7.5C	0 - 750				
	1M	0 - 1,000				
	1.5M	0 - 1,500	3	3"		
	3M	0 - 3,000	4	4"		
	5M	0 - 5,000	6	6"	18	18"
	7.5M	0 - 7,500	9	9"		
	10M	0 - 10,000	12	12"		
	15M	0 - 15,000				
	20M	0 - 20,000				
30M	0 - 30,000					

Ordering Example: TPT463E - 10M - 6/18

- Mating connector P/N711600 or 6 - pin cable assembly sold separately. Refer Options and Accessories Section.
- Transducer Options: Refer to Options and Accessories Section for complete information on thermocouples, stem length, transducer diaphragm, diaphragm and thread coating, electrical connectors and fill media.

## Delivery

Express delivery. Call for delivery information on other configurations. Refer to Options and Accessories Section for additional delivery time on products with added options.