DYNISCO MODEL TPT432A

High Accuracy Melt Pressure Transducer with Thermocouple

Description

The model TPT432A transducer simultaneously measures both temperature and pressure at a single point. The pressure sensor is the same as in the PT422A with the addition of a removable thermocouple, that can be replaced during operation.

Features

- Better than ±0.25% accuracy
- 3.33 mV/V FSO
- · Internal 80% shunt calibration
- · All stainless steel wetted parts
- 0 500 to 0 30,000 psi
- · Excellent thermal stability and repeatability
- · Integral thermocouple
- · RTD and optional thermocouples

Benefits

- · Precise pressure measurement
- · Standard low level output
- · Easy set up
- · Corrosion resistant
- · Choice of pressure ranges
- · Ideal for high temperature processes
- · Simultaneously measure pressure/temperature in one location
- Allows for 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:** ±0.25% FSO (±.5% FSO for 500, 750, 1,000 psi ranges) Repeatability: ±0.1% FSO (±0.2% FSO 500, 750, 1.000 psi)

Mounting torque: 500 inch - lbs. maximum

New EXTENDED LIFE COATING Maximum pressure: 2 x full range or 35,000 psi (whichever is less) Material in contact with pressure media: 15 - 5 PH stainless steel,

DyMax[™] coated Weight: 2.5 lbs. Thermocouple: Type J

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage Bridge resistance: Input: 345 Ohms; Output: 350 Ohms ±10%

Full scale output: 3.33 mV/V ±2% Zero balance: ±5% FSO

Excitation: 10 Vdc recommended, 12 Vdc maximum Internal shunt calibration (R-Cal): 80% FSO ±0.5% 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: 15 psi/100°F typical (27 psi/100°C)

Electronics housing:

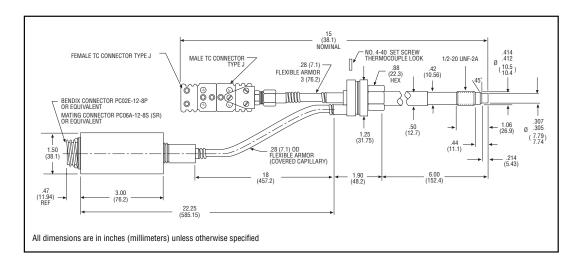
Maximum temperature: 250°F (121°C)

Zero shift due to temperature change: ±0.01% full scale/°F maximum (±0.02% full scale/°C) Sensitivity shift due to temperature change: ±0.005% full scale/°F maximum

(±0.01%f full scale/°C)

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Ordering Guide

Model	Pressur	Pressure Range (psi)		Rigid Stem		Flexible Stem	
TPT432A	Code	Range	Code	Length	Code	Length	
	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: TPT432A - 5M - 6/18

- Mating connector P/N710700 or 8 pin cable assembly sold separately.
- Transducer Options: Call for complete information on thermocouples, stem length, transducer diaphragm, diaphragm and thread coatings, electrical connectors and fill media.

Delivery

Express delivery. Call for delivery information on other configurations.