

DYNISCO MODEL PT420A

High Accuracy, Rigid Stem Melt Pressure Transducer

Description

Model PT420A is a rugged and reliable melt pressure transducer for applications in which high accuracy and repeatability are required along with a rigid stem configuration.

Features

- Better than $\pm 0.25\%$ 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

Benefits

- Precise pressure measurement
- Standard low level output
- Easy set - up
- Corrosion resistant
- Choice of pressure ranges
- Ideal for high temperature processes



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: $\pm 0.25\%$ FSO ($\pm 0.5\%$ FSO for 500, 750, 1,000 psi ranges)

Repeatability: $\pm 0.1\%$ FSO ($\pm 0.2\%$ FSO for 500, 750, 1,000 psi ranges)

Mounting torque: 500 inch - lbs.

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: 1 lb.

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage

Bridge resistance: *Input:* 345 Ohms minimum; *Output:* 350 Ohms $\pm 10\%$

Zero balance: $\pm 5\%$ FSO

Full scale output: 3.33 mV/V $\pm 2\%$

Excitation: 10 Vdc recommended, 12 Vdc maximum

Internal shunt calibration (R-Cal): 80% FSO $\pm 0.5\%$

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:

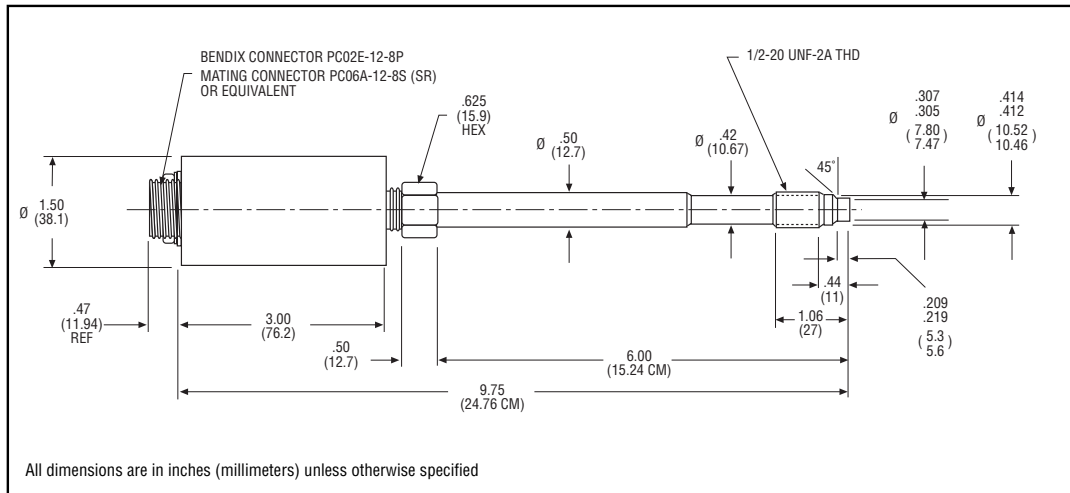
Maximum temperature: 250°F (121°C)

Zero shift due to temperature change: $\pm 0.01\%$ full scale/°F maximum ($\pm 0.02\%$ full scale/°C)

Sensitivity shift due to temperature change: $\pm 0.005\%$ full scale/°F maximum ($\pm 0.01\%$ full scale/°C)

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Ordering Guide

Model	Pressure Range (psi)		Rigid Stem	
	Code	Range	Code	Length
PT420A	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"
	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: PT420A - 5M - 6

- Mating connector P/N710700 or 8 - pin cable assembly sold separately. Refer to Options and Accessories Section.
- Transducer Options: Refer to Options and Accessories Section for complete information on stem length, transducer diaphragm, diaphragm and thread coatings, electrical connectors, and fill media. Insertion tool and clamp assembly included with unit.

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.