

DYNISCO MODEL PT435A

High Accuracy Melt Pressure Transducer for Space Restricted Areas

Description

Model PT435A provides the high accuracy of models PT420A and PT422A but can mount in extremely tight spaces. The specially designed process connector uses a free - spinning jam nut and an exposed capillary tube capable of 1/16" bend radius.

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
- Exposed, bendable capillary

Benefits

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



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

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 $\pm 2\%$

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)

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, Dymax® coated
Weight: 1.5 lbs.

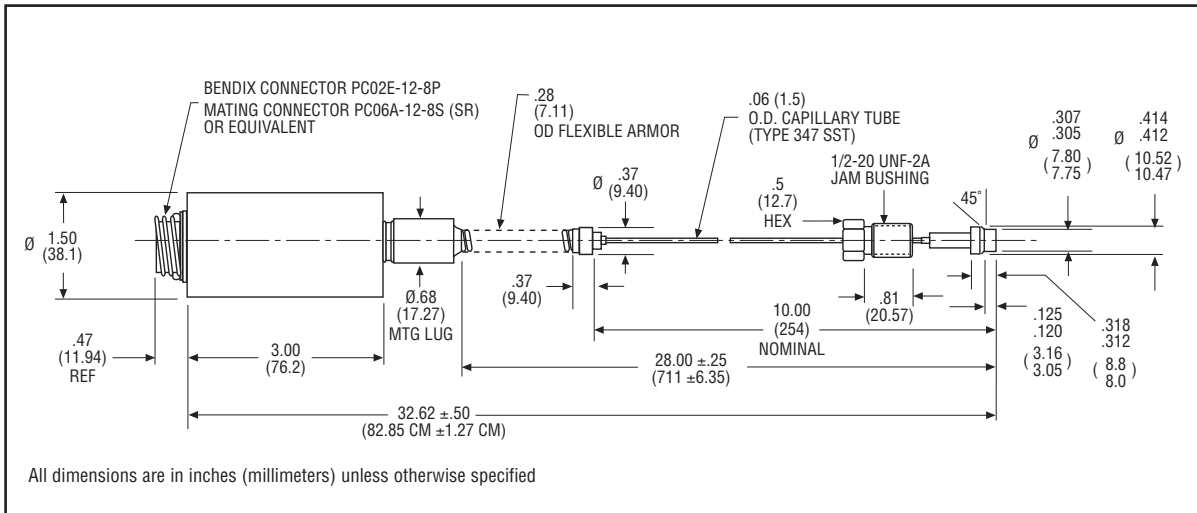
Excitation: 10 Vdc recommended, 12 Vdc maximum
Internal shunt calibration (R-Cal): 80% FSO $\pm 0.5\%$
Insulation resistance: 1,000 megohms at 50 Vdc

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)		Exposed Capillary		Armor	
	Code	Range	Code	Length	Code	Length
PT435A	5C	0 - 500				
	7.5C	0 - 750				
	1M	0 - 1,000				
	1.5M	0 - 1,500				
	3M	0 - 3,000	10	10"	18	18"
	5M	0 - 5,000				
	7.5M	0 - 7,500				
	10M	0 - 10,000				
	15M	0 - 15,000				
	20M	0 - 20,000				
30M	0 - 30,000					

Ordering Example: PT435A - 10M - 10/18

- Mating connector P/N10700 or 8 - pin cable assembly sold separately.
- Transducer Options: Call for complete information on stem length, transducer diaphragm, diaphragm and thread coatings, electrical connectors and fill media.

Delivery

Express delivery. Call for delivery information on other configurations.