

# DYNISCO MODEL PT422A

## High Accuracy, Flexible Stem Melt Pressure Transducer

### Description

Model PT422A is ideal for extrusion applications where accurate process measurement is essential. Examples include pressure control at the die or wherever high accuracy melt pressure measurement is required. The PT422A features an 18" flexible stem which provides thermal isolation of the electronics housing.

### 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
- Flexible stem

### Benefits

- Precise pressure measurement
- Standard low level output
- Easy set - up
- Corrosion resistant
- Choice of pressure ranges
- Ideal for high temperature processes
- Easy to install, ideal for high local temperatures



## 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; (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 with no zero shift

**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:** 1.5 lbs.

### 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:**

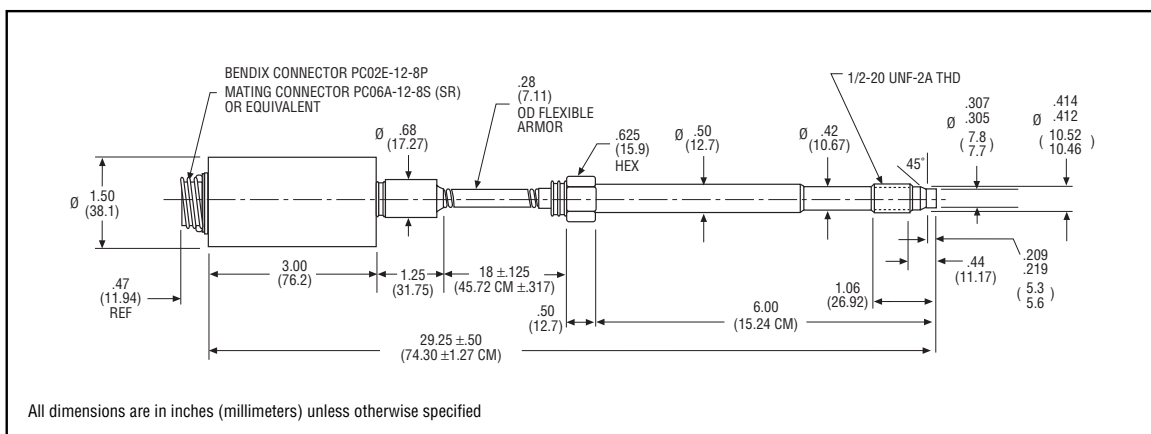
*Maximum temperature:* 250°F (121°C)

*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		Flexible Stem	
	Code	Range	Code	Length	Code	Length
PT422A	5C	0 - 500				
	7.5C	0 - 750				
	1M	0 - 1,000				
	1.5M	0 - 1,500	3	3"	18	18"
	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: PT422A - 5M - 6/18

- 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 diaphragm and thread coatings, stem lengths, 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.