

# DYNISCO MODEL DLX422

## Premium Series, High Accuracy, Flexible Stem Melt Pressure Transducer

### Description

Model DLX422 is ideal for those rugged extrusion applications where an accurate process measurement is essential. Examples include pressure control at the die, adapter, along the barrel or wherever high accuracy melt pressure measurement is required. An eighteen inch flexible stem provides thermal isolation of the electronics housing. Model DLX422 uses a special titanium nitride (TiN) coating on the threads to ensure ease of transducer installation and removal from the process. The inconel diaphragm ensures long life, even in harsh abrasive and corrosive processing environments.

### Features

- Accuracy of better than  $\pm 0.25\%$
- Titanium nitride thread coating
- Inconel diaphragm
- 3.33 mV/V FSO
- Excellent thermal stability and repeatability
- Ranges from 0 - 500 psi to 0 - 30,000 psi
- Internal 80% shunt calibration
- One free calibration certificate
- Three year warranty

### Benefits

- Highly accurate measurement
- Excellent anti - galling/wear resistance
- For extra abrasion/corrosion resistance
- Standard low level output
- Ideal for high temperature processes
- Complete offering of pressure ranges
- For easy set - up
- Free transducer calibration
- Extended product warranty



## 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:** 100 to 200 inch - lbs.; 500 inch - lbs. maximum  
**Maximum pressure:** 2 x full range or 35,000 psi (whichever is less)  
**Material in contact with pressure media:** Inconel 718  
**Weight:** 1.5 lbs.

### Electrical Characteristics

**Configuration:** Four active arm bonded Wheatstone bridge strain gage  
**Bridge resistance:** *Input:* 345 Ohms minimum; *Output:* 350 Ohms  $\pm 10\%$   
**Full scale output:** 3.33 mV/V  $\pm 2\%$   
**Zero balance:**  $\pm 5\%$  FSO

**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

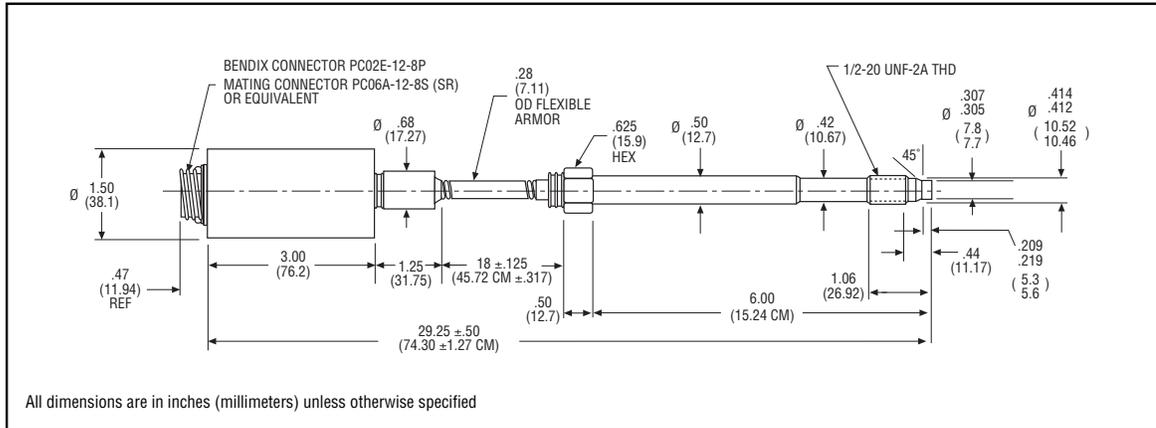
### Temperature Characteristics

**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
DLX422	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: DLX422 - 5M - 6/18

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

## Delivery

- Express delivery. Call for delivery information on other configurations.