

# DYNISCO MODEL DLX420

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

### Description

Model DLX420 is an extremely rugged and reliable melt pressure transducer ideal for abrasive and corrosive applications in which high accuracy and repeatability are required along with a rigid stem configuration. The DLX420 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 ( $\pm 0.5\%$  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:** 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 lb.

### 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

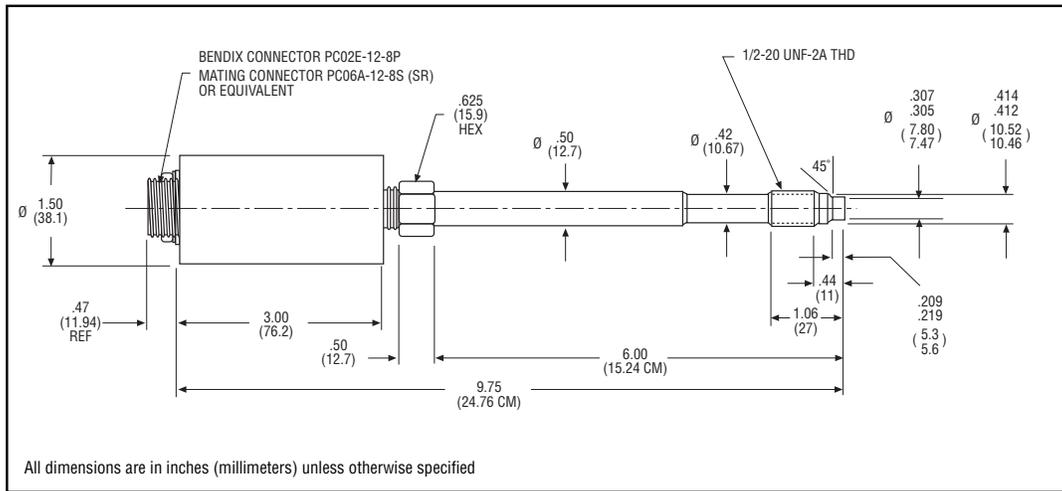
### Temperature Characteristics

**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	
	Code	Range	Code	Length
DLX420	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: DLX420 - 5M - 6

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

## Delivery

Express delivery. Call for delivery information on other configurations.