

# DYNISCO MODEL DLX432

## Premium Series, Melt Pressure Transducer with Thermocouple

### Description

Model DLX432 is a rugged, highly accurate transducer that simultaneously measures both temperature and pressure at a single point. The pressure sensor is the same as in the DLX422 with the addition of a removable thermocouple that can be replaced during operation. The DLX432 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
- Type J thermocouple
- RTD and optional thermocouples available

### 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
- For simultaneous temperature measurement
- Allows for temperature measurement alternatives



## 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 ( $\pm 5\%$  FSO for 500, 750, 1,000 psi ranges)  
**Repeatability:**  $\pm 0.1\%$  FSO ( $\pm 0.2\%$  FSO 500, 750, 1,000 psi)  
**Mounting torque:** 500 inch - lbs. maximum

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**Maximum pressure:** 2 x full range or 35,000 psi (whichever is less)  
**Material in contact with pressure media:** Inconel 718  
**Weight:** 2.5 lbs.  
**Thermocouple:** Type J

### Electrical Characteristics

**Configuration:** Four active arm bonded Wheatstone bridge strain gage  
**Bridge resistance:** *Input:* 345 Ohms; *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

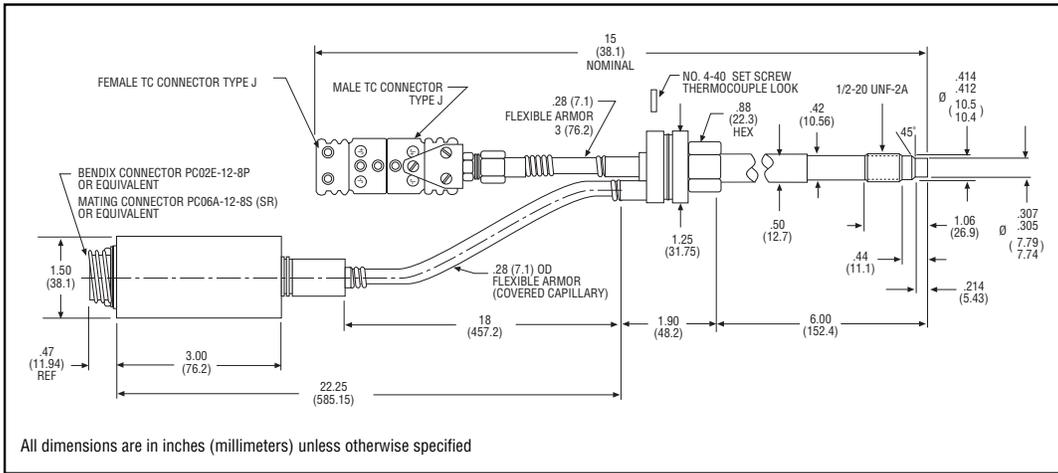
### Temperature Characteristics

**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
DLX432	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"	18	18"
	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: DLX432 - 5M - 6/18

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

### Delivery

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