

DYNISCO MODEL PT462E

The Classic Flexible Stem Melt Pressure Transducer

Description

Model PT462E has an 18" flexible stem between its rigid stem and the electronics housing to increase thermal isolation. It is the ideal choice for applications requiring good repeatability, accuracy and economy, and is widely accepted by OEMs throughout the world.

Features

- Better than $\pm 0.5\%$ accuracy
- 3.33 mV/V FSO
- Internal 80% shunt calibration
- All stainless steel wetted parts
- 0 - 500 to 0 - 30,000 psi
- Good stability and repeatability
- Flexible stem

Benefits

- Reliable pressure measurement
- Standard low level output
- Easy set - up
- Corrosion resistant
- Choice of pressure ranges
- Reliable measurement
- Easy to install and 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: $\pm 0.5\%$ FSO

Repeatability: $\pm 0.2\%$ FSO

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage

Bridge resistance: *Input:* 345 Ohms minimum; *Output:* 350 Ohms ± 10

Full scale output: 3.33 mV/V $\pm 2\%$

Zero balance: $\pm 10\%$ full scale

Temperature Characteristics

Transducer diaphragm:

Maximum diaphragm temperature: 750°F (400°C)

Zero shift due to temperature change: 25 psi/100°F maximum (45 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 $\pm 1.0\%$

Insulation resistance: 1,000 megohms at 50 Vdc

Electronics housing:

Maximum temperature: 250°F (121°C)

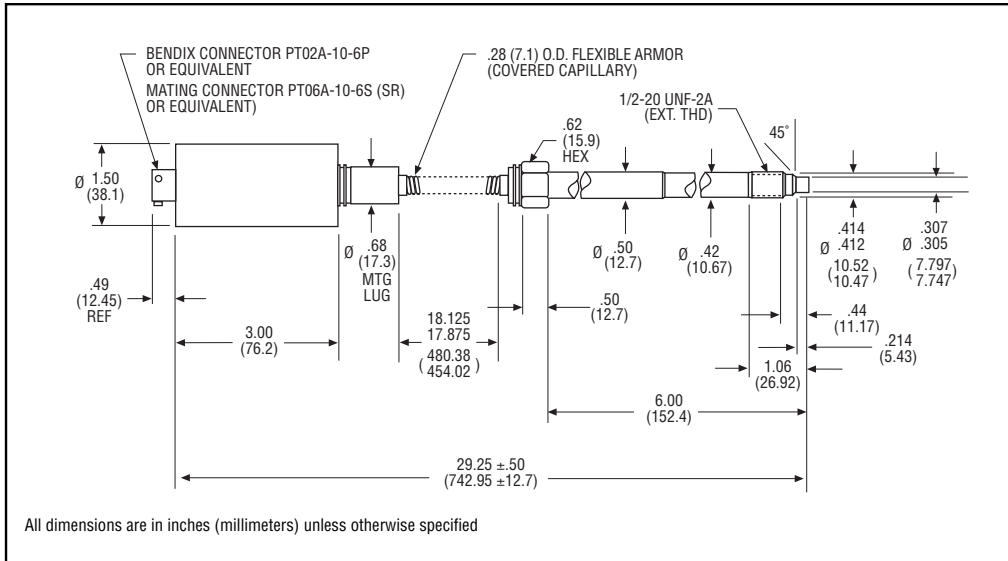
Zero shift due to temperature change: 0.05% full scale/°F maximum (0.10% full scale/°C)

Sensitivity shift due to temperature change: 0.02% full scale/°F maximum (0.04% full scale/°C)



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Ordering Guide

| Model | Pressure Range (psi) | | Rigid Stem | | Flexible Stem | |
|--------|----------------------|------------|------------|--------|---------------|--------|
| | Code | Range | Code | Length | Code | Length |
| PT462E | 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: PT462E - 3M - 6 / 18

- Mating connector P/N711600 or 6 - pin cable assembly sold separately.
- Transducer Options: Please consult factory.

Delivery

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

