

DYNISCO MODEL MRT462

Multi-Range, Flexible Stem Melt Pressure Transducer

Description

Now, users can select from among four pressure ranges on one transducer with the new Dynisco MRT, the first multi-range pressure transducer. By simply turning a rotary switch via an access pot on the transducer, four potential pressure ranges can be selected. The transducer can be ordered so that the equivalent psi, bar, Kg/cm² or MPa ranges can be chosen. This revolutionary melt pressure transducer offers maximum versatility to handle changing process conditions and materials.

Features

- Accuracy of better than $\pm 1.0\%$
- Four user selectable pressure ranges in one model
- Externally selectable range via rotary switch
- 3.33 mV/V FSO for selected range
- Internal 80% shunt calibration
- All stainless steel wetted parts
- Proven sensor design

Benefits

- Reliable pressure measurement
- Maximizes inventory flexibility
- Maximum versatility for changing process conditions
- Standard low level output
- Easy set-up
- Corrosion resistant
- Good stability and repeatability



Specifications

Performance Characteristics

Ranges:

psi: 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000

bar: 0 - 200, 0 - 350, 0 - 500, 0 - 700

kg/cm²: 0 - 200, 0 - 350, 0 - 500, 0 - 700

MPa: 0 - 20, 0 - 35, 0 - 50, 0 - 70

Accuracy: $\pm 1.0\%$ FSO

Repeatability: $\pm 0.10\%$ FSO

Mounting torque: 500 inch - lbs. maximum

Overload rating: 20,000 psi (1,400 bar)

Material in contact with pressure media: 15 - 5 PH stainless steel, Dymax[®] coated

Weight: 1.5 lbs.

NEW
EXTENDED
LIFE
COATING

Electrical Characteristics

Configuration: Four active arm bonded Wheatstone bridge strain gage

Bridge resistance: Input: 345 Ohms minimum; Output: 350 Ohms typical

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

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

Excitation: 10 Vdc recommended, 12 Vdc maximum

Internal shunt calibration (R-Cal): 80% FSO $\pm 1\%$

Insulation resistance: 100 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: 160°F (71°C)

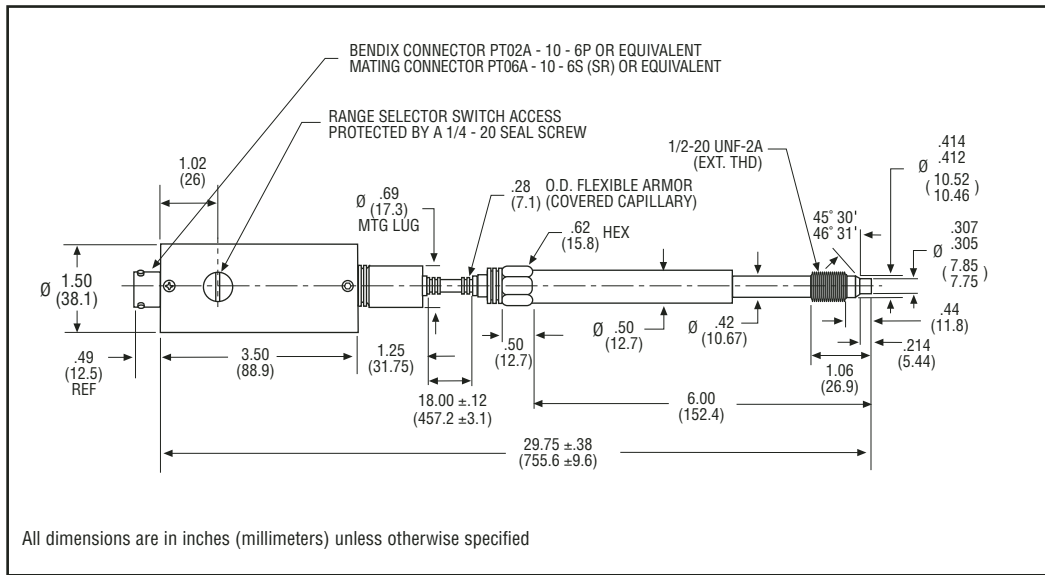
Zero shift due to temperature change: $\pm 0.05\%$ full scale/°F maximum ($\pm 0.10\%$ full scale/°C)

Sensitivity shift due to temperature change: $\pm 0.02\%$ full scale/°F maximum

($\pm 0.04\%$ full scale/°C)

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Ordering Guide

Model	Pressure Ranges		Rigid Stem		Flexible Stem	
	Code	Range	Code	Length	Code	Length
MRT462	XM	0 - 3,000 psi	6	6"	18	18"
		0 - 5,000 psi				
		0 - 7,500 psi				
		0 - 10,000 psi				
	XB	0 - 200 bar				
		0 - 350 bar				
		0 - 500 bar				
		0 - 700 bar				
	XKg	0 - 200 Kg/cm ²				
		0 - 350 Kg/cm ²				
		0 - 500 Kg/cm ²				
		0 - 700 Kg/cm ²				
	XMPa	0 - 20 MPa				
		0 - 35 MPa				
		0 - 50 MPa				
		0 - 70 MPa				

Ordering Example: MRT462 - XB - 6/18

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

Delivery

Call for delivery information.