

MRT 463 Multiple Range Pressure Sensor

MAXIMUM VERSATILITY FOR CHANGING PROCESS CONDITIONS



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

Tel.: 03303 / 50 40 66

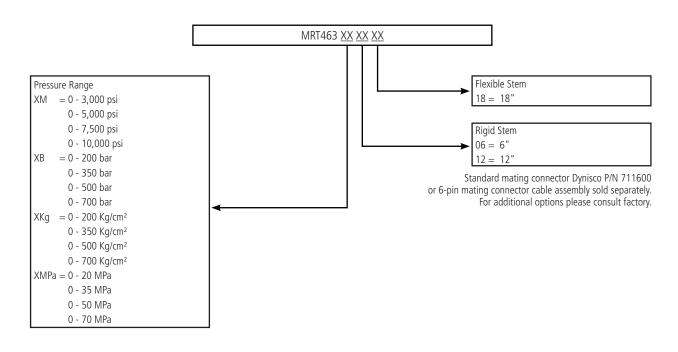
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- Accuracy of better than $\pm 1.0\%$
- Four user selectable pressure ranges in one model
- Externally selectable range via rotary switch process conditions
- 3.33 mV/V FSO for selected range
- Internal 80% shunt calibration
- All stainless steel wetted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

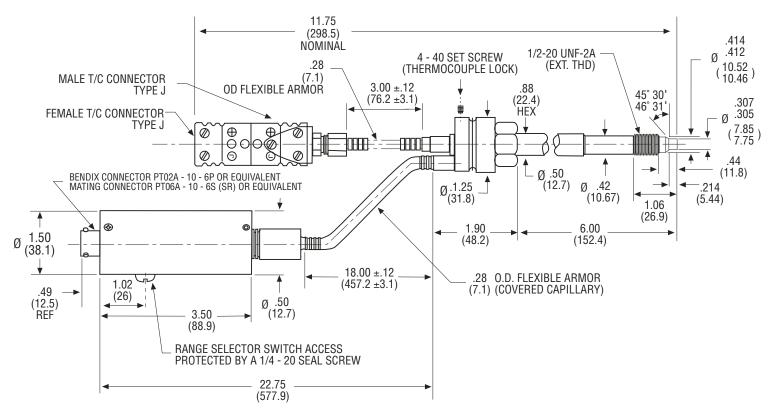
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Performance Characteristics		
Ranges:	psi: 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000 bar: 0 - 200, 0 - 350, 0 - 500, 0 - 700 kg/cm ² : 0 - 200, 0 - 350, 0 - 500, 0 - 700 MPa: 0 - 20, 0 - 35, 0 - 50, 0 - 70	
Accuracy:	±1.0% FS0	
Repeatability:	±0.1% FS0	
Mounting Torque:	500 inch - lbs. maximum	
Overload Rating:	20,000 psi (1,400 bar)	
Material in Contact with	15 - 5 PH stainless steel,	
Pressure Media:	Dymax® coated	
Weight:	2.5 lbs.	
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 ±2.0%	
Zero Balance:	±10% full scale	
Excitation:	10 Vdc recommended, 12 Vdc maximum	
Internal Shunt Calibration (R-Cal):	80% FSO ±1.0%	
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:	±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)

Ordering Guide for MRT463



Dimensions



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All dimensions are in inches (millimeters) unless otherwise specified