

MDT 460 | 462 | TDT 463 Pressure Sensors

AMPLIFIED TRANSDUCERS



Description

Dynisco's MDT-series amplified transducers convert process pressure into an amplified signal for long distance transmission free of noise interference. All models are available in 4-20 mA, 0-5 VDC and 0-10 VDC, 2-, 3- and 4-wire high level outputs. MDT 420 series of sensors 422 | TDT 432 are sensors with an accuracy of ± 1.0% f.s.v, which are ideal for applications requiring accuracy, easy installation, repeatability and reliability. This series provides special features for applications in high noise and interference environments. It is also possible to use unshielded cables for remote transmission without interference. The sensor can be reset locally or remotely.

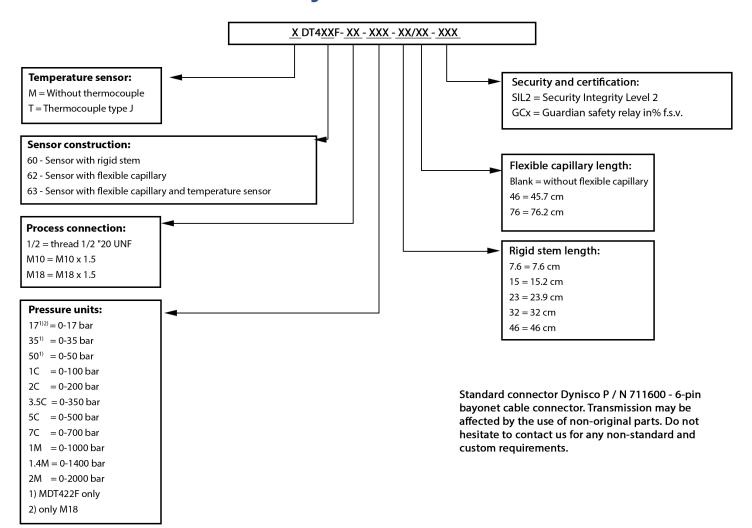
A combined TDT sensor design with optional thermocouple or RTD is available to ensure simultaneous temperature measurement in one process connection.

Features

- Installation for media temperature up to 400°C
- Flexible capillary between rigid stem and housing
- Electrical built-in calibration
- Various high level outputs
- 4-20 mA, 2-wire 0-10 V DC, 3/4-wire and other volt output signal ranges

			Techni	ical Data	a and Operating	Dat	a
Pressure Range:				0 - 17 bar to 0 - 2000 bar			
Accuracy:				±1.0 f.s.v. up to 50 bar ±1% f.s.v.			
Repeatability:				±0.2% f.s.v			
Resolution:				infinite			
Maximum Overload (without influencing operating data):				2 x pressure range for range 1000 and 1400 bar max. 1750 bar and max. 2400 bar for range 2000 bar			
Burst Pressure:				6 x pressure range max. 3000 bar			
Material in Contact with Media:				15-5 Mat. No. 1.4545, DyMAX coated			
			Elect	L	aracteristics		
Configuration:				Four-arm Wheatstone bridge strain gage (DMS)			
Internal Shunt-Calibration:				80% fsv ±1%			
Leakage Resistance:				1000 MΩ at 50 V DC			
MDT4X0F 2-wire mA:							
Output Signa	al: 4-2	20 mA		Supply Vo	oltage:	10-3	6 V DC
Zero Balance	٥٠	2% ±5% of full scale adjustable		Load Resistance:		Maximum 1.2Ω at 36 V	
		,		Γ4Χ0 K/L/N	I/N 3-wire V DC		
Output Signa	Inal: K: 0-5 Vdc M: 1-6 Vdc L: 0-10 Vdc N: 1-11 Vdc		Supply Voltage:		15-32 V DC		
Load Resista	tance: K: >5 k Ω , M: >5 L: 10 k Ω , N: >10						
				MDT4	X2 G/H		
Output Signal:			G: 0-5 V DC, H:	0-10 V DC	Supply Voltage:		dual ±10 to ±16 V DC single 19-32 V DC
Load Resistance: G: >5 kΩ			G: >5 kΩ, H:	>10 kΩ			J
Temperature Influence							
Diaphragm: Max. Temperature:				400°C			
Zero Shift (due to temperature change):				< 0.4 bar/10°C			
Housing: Max. Temperature:				85°C			
Zero Shift (due to temperature change):				±0.2% FSO/10°C			
Sensitivity Shift (due to temperature change):				±0.4% f.s.v./10°C			
Sensitivity Shi	ift (due to	o temp	erature change):	±0.4% f.s.\	7.7 10 C		
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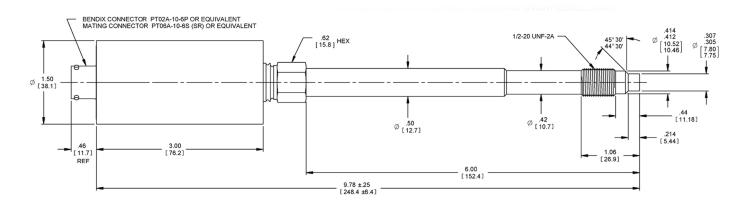




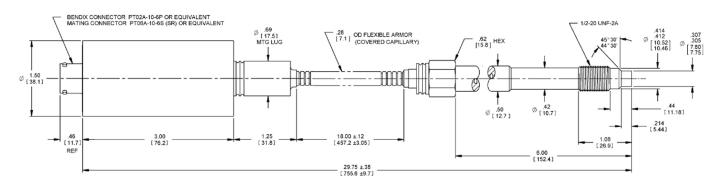




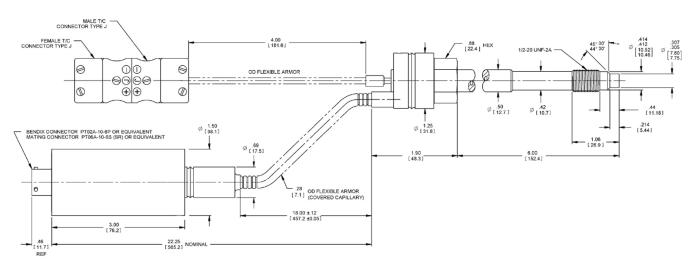
MDT 460



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Azurr-Technology, s.r.o.