



MDT

DENSITY TRANSMITTER

The Metroval density transmitter can be applied in the processes of specific mass measurement, density or in the concentration of substances chemicals, whether pure or not, with the presence of particles in suspension, even in corrosive chemicals. It works independently of the installation position and has monitoring continuous.

BETTER RELATION
COST X BENEFIT

ADVANCED
TECHNOLOGY

OPTIMIZES SOLUTION
PROCEDURES

TECHNICAL SPECIFICATIONS

Flow Rate	0 - 5000 kg/m ³		
Standard Flow Rate	400 - 2000 kg/m ³		
Concentration Measurement	°INPM (alcohol content) 90-95 20°C 90-100 23°C 98-100 20°C	°BRIX (saccharose) 10-35 20°C 30-60 23°C 50-80 20°C 50-80 40°C	°BAUMÉ (density) 0,5-25 15,6°C
Accuracy	< ±0,1 kg/m ³		
Repeatability	< ±0,01 kg/m ³		
Conductive material in contact with the fluid	316L Materials on request: 316Ti; Tantalum; Titanium; Hastelloy C4; Monel		
Temperature	Environment	-20 to +60 °C / -40 to +85 °C (on request)	
	Process	-40 to +150 °C	
	Special	-40 to +210 °C	
Communication protocol	MODBUS - RTU (RS-485)		
Certification of Conformity Ex INMETRO	Integral Version: Ex d ib IBB T6 Gb (-20 °C ≤ T amb ≤ +60 °C)	Remote Version: Ex d [ia Ga] IIB T6 Gb Ex d [ia IIC Ga] IIB T6 Gb (-20 °C ≤ T amb ≤ +60 °C)	

MODEL	MDT 15	MDT 20 (on request)	MDT 25 (on request)
Sampling flowrate	0 to 50 l/min	0 to 200 l/min	0 to 350 l/min
Recommended sampling flowrate	1,5 to 6 l/min	10 to 30 l/min	20 to 50 l/min
Connections	OD 12 mm (Swagelok) Flange DN 1/2", 3/4" or 1" Class 150 Flange DN 1/2", 3/4" or 1" Class 300 Flange DN 1/2", 3/4" or 1" Class 600 Screw 1/2" BSP or NPT Tri-Clamp DN25	OD 3/4" (Swagelok) Flange DN 3/4" or 1" Class 150 Flange DN 3/4" or 1" Class 300 Flange DN 3/4" or 1" Class 600 Screw 3/4" BSP or NPT Tri-Clamp DN25	Flange DN 1" Class 150 Flange DN 1" Class 300 Flange DN 1" Class 600 Screw 1" BSP or NPT Tri-Clamp DN25
Weight	8 Kg	12 Kg	21 Kg

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