Technical data

Litronic FMS coaxial tube sensor type RMH 12

The Litronic-FMS RMH12 pipe sensor is a so-called "intelligent sensor", i.g. the internal microprocessor enables complete problem-solving wthin a single part. Furthermore, it also offers expanded functionality. The sensor transfers all of the relevant factory calibration data to the evaluation and transfer module 8 s after being switched on, and following this capacity raw value and both temperatures 30 times per second.

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Physical principle	coaxial field in the cylinder condenser
Frequency	20 MHz
Measuring point	Pipeline Diameter 12mm
Process Connection	Ermeto compression fitting 2 mm, M18x1,5
Measuring range	0 - 100 % water content (measuring window adjustable)
Capacitance resolution	250 aF
Cycle of up-date	33,33 ms
Measuring precision maximally	+/- 10 ppm water content 1.)
Measured value transmission:	digital: RS485, streaming
Max. Number of sensors at the bus	4
Max. cable length	1200 m
Power pack	12-24 V, 0.5 VA
Measuring range of temperature	5 – 90 °C
Measuring precision measurement of temperature	+/- 0.5 °C
Working – ambient temperature	5 – 60 °C
Storing temperature	- 40 - 60 °C ^{2.)}
Protection class	IP65
Max. Pressure	6 bar
Volume flow rate	51200 l/h
Connecting cable type / length	UNITRONIC® ROBUST C 7x0,14 shielded / 6 m
Material shell	V4A (1.4305)
Weight: Ø / length	54 / 219 (230) mm
Weight without cable	ca. 2,1 kg



www.water-content-measurement.com

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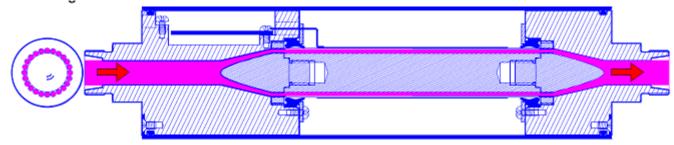
- 1.) depending on material, ideal material flow and calibration according to the rules.
- 2.) clear of liquid



Characteristics

- Direct digital measuring process
- · Extremely high capacity resolution due to patented measuring circuit
- 30 measurements per second also enable assessment of the dynamic behavior
- Automatic reference equalization every second
- Temperature-stabilized, regulated quartz time base (TCXO)
- High-resolution temperature measurement and temperature compensation of the liquid
- High-resolution temperature measurement and temperature compensation of the circuit
- Extremely high water resolution due to optimum geometry of the coaxial condenser
- Ceramic coaxial condenser
- High quality stainless steel housing
- · Resistant to aggressive liquids and to oils
- Flow-optimized throughout with even cross-section
- Simple process connection
- · Digital interface and networking
- Data-streaming technology with automatic bus arbitration

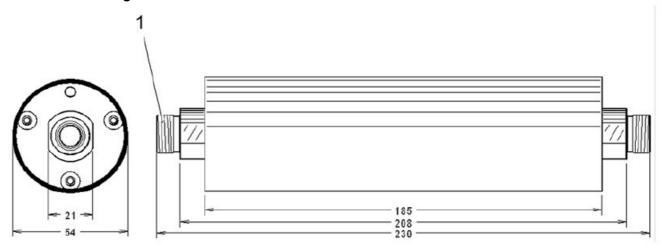






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Dimensional drawing:



S006133

1 Compression ring screw connection 12 mm. M18x1.5