

Underwater settled solids detector MUDSonic



MUDSonic MF

- Detection of settled solid particles in water
- Level monitoring with ultrasonic detector
- Output: 2 limit contacts, 1 fault contact
- Adjustable timer
- Adjustment along 3 measuring ranges
(For sludge densities within 50 to 250 g/l)

APPLICATIONS

- Iron filings detection
- Salt detection in brine tank
- Sludge height monitoring in:
Thickeners
Primary clarifiers
Industrial processes (sludges with iron hydroxide, high density slurry, etc.)

DESCRIPTION

A complete system includes a MUDSonic TS immersion probe and a MUDSONIC MF operating unit.
The detection is done between emitter and receiver of ultrasonic waves.
The probe evaluates the concentration of solid particles by attenuation of the signal.
The probe is immersed at a fixed height in the tank; It triggers a switch when the concentration (predefined) is reached (sludge level rising by settlement).
The trigger point and timer are adjustable on site (real operating conditions).

TECHNICAL FEATURES

Operating unit MUDSonic MF

Power supply	100 to 255 V AC - 50/60 Hz (model MF G) or 10 to 30 V DC and 12 to 24 V AC (model MF D)
Consumption	1 ... 5 W
Ambient temperature	-10 ... +45 °C
Relay outputs	2 contacts, 1 threshold, potential-free (N.O.) (Limit exceeded, below the limit) 1 potential-free contact, fault alarm (N.O.)

When the supply voltage is off or in case of power failure, all contacts are open.

Switching power	250 V AC, 3A / 30 V DC, 1 A
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**Caution: The contacts are not protected against overload.
Provide an external protective device.**

Housing dimensions:	22.5 x 100 x (h)122 mm
DIN Rail:	35 x 7.5 mm (DIN EN 60715)
Protection:	IP 40
Electrical connections:	Screw connectors; Cables 1.5 mm ² max.



MUDSonic TS

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FEATURES (continued)

Display:	2½ digit LED, 5x7 dot matrix display 1 Blue LED, relay energized 3 Yellow LEDs, measuring range (LOW / Medium / HIGH)
Settings:	Through a rotary switch on front
Delay:	Adjustable from 0.1 up to 9.9 s

Probe MUDSonic TS

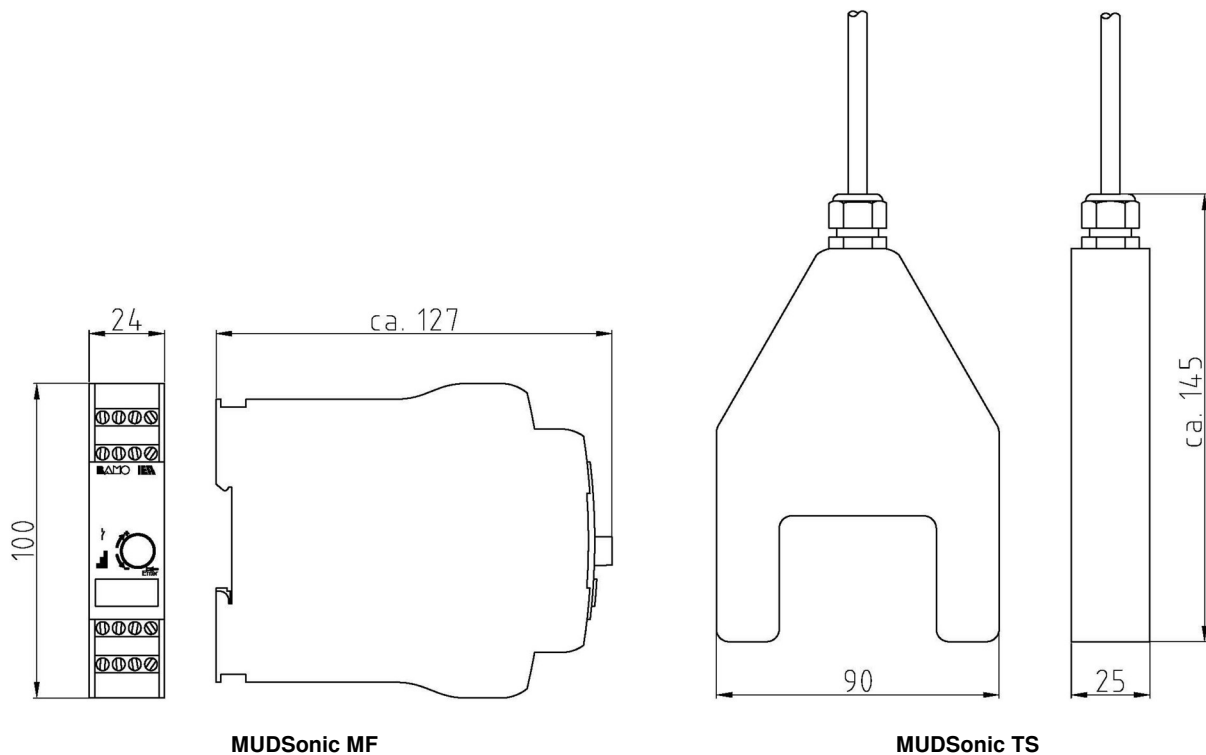
Detector material:	PVC
Cable:	TPK, 10 m long, shielded, 2 x1 mm ² Other cable materials and lengths request (PVC, oil and hydrocarbons-proof, etc.). (Max. length 50 m)
Dimensions	145 x 90 x 25 mm
Protection:	IP 68 acc. EN 60529
Measuring principle:	Ultrasonic signal attenuation
Operating temperature	-20 ... +45 °C

EC Conformity: The instrument meets the legal requirements of the current European Directives

CODE NUMBERS AND REFERENCES

Code	Reference	Description
426 200	MUDSonic TS	Probe MUDSonic TS , 10 m long cable
426 300	MUDSonic MF G	Operating unit MUDSonic 100 ... 255 V AC
426 305	MUDSonic MF D	Operating unit MUDSonic 10 ... 30 V DC & 12 ... 24 V AC
<i>Accessories</i>		
232 122	Cabinet	Wall mount cabinet, IP 65

DIMENSIONS



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