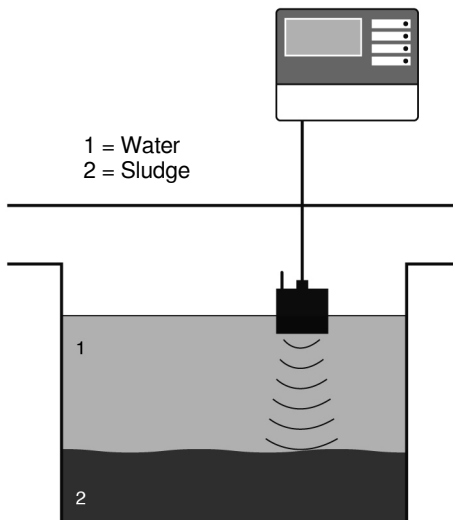
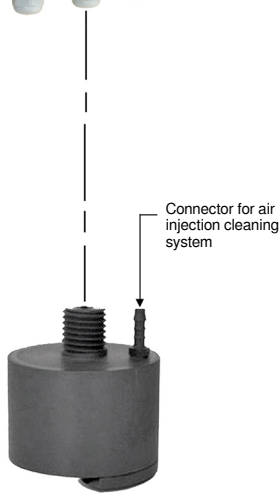


Sludge level probe MUDSENS



- Ultrasonic probe
- Level monitoring of sludge in sedimentation tanks
- Advanced algorithm
- Output 4-20 mA: representative of sludge level
- Cleaning with compressed air
- User-friendly menu

APPLICATIONS

- Primary sludge basin
- Clarifiers, primary & secondary
- Storage tanks, isolated plants
- Sludge level detection
- Countercurrent settling

DESCRIPTION

MUDSENS monitors level of sludge in sedimentation basin, up to 12 m deep.

The ultrasonic detection combined with the advanced algorithm, allows detection of interface water/sludge.

Thus, it is not impacted by solid particles in suspension as well as any other disturbances such as noise or electrical interferences.

Installation:

The ultrasonic probe is immersed just below the surface of water pointing directly towards the bottom of the basin.

On the monitor, a simple keyboard consisting of 3 buttons is used by the operator to specify the depth of the basin.

Then, the sensor automatically adjusts its signal to detect the sludge/water interface and delivers a 4-20 mA signal proportional to the sludge level.

Maintenance:

During operations, the signal strength may vary due to various factors such as the presence of solid particles that accumulate on the sensor.

To minimize this phenomenon, an air injection system can be connected to remove particles and reduce maintenance operations.

The control of the air injection system is supported by the monitor.

Its user-friendly menu allows the operator to set a sensor fault alarm and detection of a high level of sedimentation.

CODE NUMBERS AND REFERENCES

Code	Reference	Description
599 200	MUDSENS	Sludge level monitoring system
599 220	CAPTEUR U.S.	U.S. probe alone
599 251	SP / MUDSENS	Immersion probe holder

BAMO INTERNATIONAL

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Sludge level probe
MUDSENS

14-06-2019

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TECHNICAL FEATURES

Technology/ Operation:

Measuring principle	Immersible ultrasonic sludge level probe
Measuring range	From 0.7 m up to 12 m

Performance:

Accuracy	± 0.03 m
Resolution	0.003 m
Response time	Adjustable
Sensor output signal	Digital, 32 bits (specific monitor is mandatory)
Power supply	115 / 230 V AC

Output/ Interface:

Analogue	1 output 4-20 mA, 750 Ohm
Relay outputs	4 contacts, 5A, 230 V AC 2 contacts to set up on site; 1 contact for cleaning; 1 contact for default sensor

Programming:

User interface	3 keys, friendly using menu
Echo profile	Graphic on LCD display
Safety	Keyword access
Data	EEPROM

Environment:

Ambient temperature	-20 ... 60 °C
Protection	IP65, external mounting
Dimensions	280 x 219 x 156 mm
Cable glands	1x M12; 1x PG19; 5x M20
Housing	Polycarbonate, inflammable class PL94-5V
Mass	1.4 kg

Probe features:

Cable length	Standard: 10 m long (extra length on request)
Cable	Shielded coaxial cable
Length max.	30 m (on request)
Ambient temperature	-20 ... +60 °C
Dimensions	Ø 50 mm, height 75 mm
Fitting	Male thread, 1" NPT
Protection	PVC body, IP 68
US wave angle	Solid angle: 6° ; Frequency: 1.1 MHz
Cleaning	Socket to fit air compressed hose
Purge frequency	Adjustable from 1 to 720 min
Cleaning compressed air	3 bar max.

MOUNTING ACCESSORIES:

As a standard, BAMO can supply a probe holder in AISI 316 L, 3 m high (Ø43 mm) to fit the probe at the right height with respect to the water surface.

On request we manufacture any specific probe holder.

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