

Ultrasonic interface sensor Turbimax CUS71D

Memosens immersion sensor for sedimentation tanks in water, wastewater and utilities



More information and current pricing:

www.dk.endress.com/CUS71D

Benefits:

- **Reliable:** Sensor provides accurate and continuous measurement of interface level or range.
- **Safe:** Real-time interface information ensures quick control of valves and actuators.
- **Easy:** Simple commissioning thanks to predefined calculation models.
- **Cost-saving:** Automatic wiper cleaning function enables long-term, maintenance-free operation.
- **Intelligent:** All calibration and sensor-specific data stored in the sensor.
- **Flexible:** Mounting hardware suits all clarifier designs for optimal adaption to the measuring task

Specs at a glance

- **Measurement range** 0.3 to 10 m (1 to 32 ft)
- **Process temperature** 1 to 50 °C (34 to 122 °F)
- **Process pressure** Standard version: 0 to 6 bar (0 to 87 psi)
Version with wiper: 0 to 0.3 bar (0 to 4.4 psi)

Field of application: Turbimax CUS71D continuously monitors the separation and transition zones in clarification and settling tanks, ensuring safe, economic and efficient sedimentation processes. It provides you with reliable, real-time measured values in real-time for quick control of valves and actuators. Turbimax CUS71D is ideal sensor for every measuring task - from protection of downstream water in wastewater treatment plants to optimization of backwash times in waterworks.

Features and specifications

Sludge Level

Measuring principle

Ultrasonic sensor

Application

Continuous interface measurement in sedimentation basins

Installation

Submerged sensor with fixed cable

Measurement range

0.3 to 10 m (1 to 32 ft)

Measuring principle

Ultrasonic return-time measurement

Material

Sensor: ABS and epoxy resin

Wiper: EPDM

Housing: Polyamide

Dimension

Diameter: 74 mm (2.9 inch)

Length standard sensor: 68 mm (2.7 inch)

Length wiper sensor: 135 mm (5.3 inch)

Process temperature

1 to 50 °C (34 to 122 °F)

Process pressure

Standard version: 0 to 6 bar (0 to 87 psi)

Version with wiper: 0 to 0.3 bar (0 to 4.4 psi)

Temperature sensor

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Sludge Level

Ex certification

None

Connection

Process connection: G1 and NPT 3/4"

Fixed cable 15 m

Ingres protection

IP68

Output / communication

Digital output for connection to Liquiline CM44x

Additional certifications

EAC

More information www.dk.endress.com/CUS71D