

# Ultrasonic interface sensor Turbimax CUS71D

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



More information and current pricing:

[www.fi.endress.com/CUS71D](http://www.fi.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.

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## Features and specifications

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### Sludge Level

**Measuring principle**

Ultrasonic sensor

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**Application**

Continuous interface measurement in sedimentation basins

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**Installation**

Submerged sensor with fixed cable

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**Measurement range**

0.3 to 10 m (1 to 32 ft)

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**Measuring principle**

Ultrasonic return-time measurement

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**Material**

Sensor: ABS and epoxy resin

Wiper: EPDM

Housing: Polyamide

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**Dimension**

Diameter: 74 mm (2.9 inch)

Length standard sensor: 68 mm (2.7 inch)

Length wiper sensor: 135 mm (5.3 inch)

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**Process temperature**

1 to 50 °C (34 to 122 °F)

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**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)

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**Temperature sensor**

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## Sludge Level

### Ex certification

None

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### Connection

Process connection: G1 and NPT 3/4"

Fixed cable 15 m

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### Ingres protection

IP68

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### Output / communication

Digital output for connection to Liquiline CM44x

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### Additional certifications

EAC

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