Ultrasonic interface sensor
Turbimax CUS71D

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

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.

More information and current pricing: www.us.endress.com/CUS71D
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

**Ingress protection**
IP68

**Output / communication**
Digital output for connection to Liquiline CM44x

**Additional certifications**
EAC

More information [www.us.endress.com/CUS71D](http://www.us.endress.com/CUS71D)