

Sludge level CUC101



More information and current pricing:

www.fr.endress.com/CUC101

Benefits:

- **Reliable:** Sensor provides accurate and continuous concentration measurement of interface level or range.
- **Safe:** Real-time interface information ensure quick control of valves and actuators.
- **Unique:** Parallel concentration measurement and height measurement for sludge profile evaluation.
- **Time-saving:** Sensor with 4-beam pulsed light technology minimizes maintenance effort.
- **Intelligent:** Safe sensor position with automatic hold function for measured values during scraper passage.
- **Easy:** Simple configuration, calibration and adjustment via menu-assisted user interface.

Field of application: CUC101 continuously monitors the concentration of separation zone and sludge level in clarification and settling tanks, allowing economic and efficient operation of sedimentation processes. The compact system provides you with real-time information about sludge level and profile in your secondary clarifier, which protects downstream water and your budget from sludge overflow.

Features and specifications

Sludge Level

Measuring principle

Optical sensor

Application

- Wastewater treatment- Water purification : Settling basin after flocculant dosage, sludge height in contact sludge process.- Mining : thickening during coal washing process.- Chemical industry : static separation process

Sludge Level

Installation

open tanks and channels

Characteristic

Optoelectronic measuring system for separation zone and sludge level detection.

Measurement range

Sludge concentration : 0 - 12g/l
Sludge height: 0 - 11,4m

Measuring principle

Direct, continuous measurement of concentration levels using zone-tracking immersion sensor (CUS65-A). Sensor with 4-beam pulsed light technology. Parallel concentration measurement and height measurement for sludge profile evaluation.

Design

Transmitter and cable drum with stepper motor together in a closed plastic housing. Moving turbidity sensor with fixed cable.

Material

Sensor : stainless steel 1.4571 and POM
Housing : polyester and polycarbonate.

Dimension

647x436x250mm
24.45 x 17.00 x 9.75 psi

Process temperature

-5°C ... 50°C
23°F ... 122°C

Process pressure

Ambient pressure

Connection

Fixed cable connection

Sludge Level

Input

Turbidity and height measuring value, synchronisation for the rack moving, sludge profile.

Output / communication

0/4-20mA for height and concentration as well as relais outputs.

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