

# Sludge level 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.

More information and current pricing:

[www.apsc.endress.com/CUC101](http://www.apsc.endress.com/CUC101)

**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

#### 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

#### Installation

open tanks and channels

## Sludge Level

**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

**Input**

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

## Sludge Level

### Output / communication

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

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