A clear view right to the ground

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OPTISYS SLM 2080 – Optical measuring system for reliable detection of sludge blanket and fluff level

Constantly moving, expanding, contracting and cannot be "seen" by standard ultrasound measuring devices: fluff in sedimentation tanks and sludge thickeners. However, operators of wastewater treatment plants need reliable information about the level and concentration of all sludge phases. These are precisely the values provided by the OPTISYS SLM 2080. Fluff layers largely reflect or damp ultrasound waves. Standard measuring devices can therefore often not reliably detect sludge layers below, but OPTISYS SLM 2080 goes right down to the bottom of the tank and thanks to its direct, optical measuring principle, it detects all sludge phases, supplying precise concentration and level measurements. Optional it is even possible to record a sludge profile.

This provides you with valuable information that acoustic processes cannot "hear", so you can detect sedimentation problems early and prevent sludge being washed out to the next stage.

OPTISYS SLM 2080

Robust and reliable

OPTISYS SLM 2080 converts the measurement results into digital signals and transmits them using a reliable optical transfer system. The advantage of this system is that there are no contact problems and no wear from mechanical stress. An inductive coupling provides the sensor with a reliable power supply. The sturdy stainless steel housing together with the built-in heater and automatic spray cleaning of the sensor and cable make the OPTISYS SLM 2080 ideally suited for use in the harsh environment of waste water treatment plants.

Simple, complete and mobile

With the automatic self-recognition of the precalibrated sensor and the user-friendly software, the installation of the OPTISYS SLM 2080 is done in less than 30 minutes. You receive a complete measuring system including all mounting accessories for installation on handrails of clarifiers and rake bridges. You don't even have to drill any holes. Another benefit is that you can change the location without any problems.

Savings in subsequent stages

OPTISYS SLM 2080 measures the sludge level constantly to detect sedimentation problems early and prevent sludge washout.
The resource-saving measurement is available around the clock. An important effect of this is a higher suspended solids content in return and waste sludge through improved sedimentation process which provides better operation and energy savings in subsequent stages.

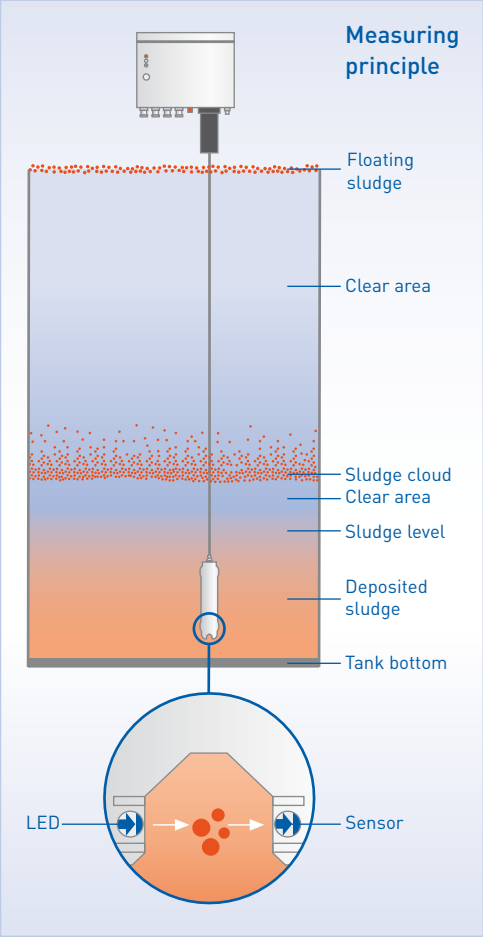
Highlights:

- Level measurement of the sludge blanket and fluff
- Direct consistency measurement via optical suspended solids sensor
- Precalibrated sensor
- Low maintenance due to automatic flushing of sensor and cable
- IP55 enclosure and built-in heater for outdoor installation
- Digital sensor technology: reliable signal transmission, self-recognition of sensor
- Complete system with multi-parameter converter MAC 080 and all mounting accessories included

Edge on information: Get clear view instead of a distant echo

Unlike the commonly used ultrasound level measurement, the OPTISYS SLM 2080 uses an optical sensor which is immersed into the media. Thus it can measure the suspended solids concentration at different heights.

The measurement of the suspended solids content is based on the unique method of the transmission of light, which provides precise measurement results independent of the sludge colour. The direct measuring principle excludes incorrect measurements due to echo returns from walls or separating zones as well as signal damping by fluff or floating sludge.



Contact

KROHNE Analytics GmbH
Ludwig-Krohne-Str. 5
47058 Duisburg
Germany
Tel.: +49 203 301 0
Fax: +49 203 301 103 89
info@krohne.de

www.krohne.com