

Sludge level control with ViSolid® 700 IQ

Background sludge level monitoring

Increasingly frequent heavy rainfall events and rising precipitation peaks result in high hydraulic loading and overloading for wastewater treatment plants. This increases the risks of technical damage to the plant, disruption of the biological treatment performance or sludge run-off. In order to avoid such damage, continuous sludge level monitoring is gaining in importance - in addition to emergency drains in the sewage system and rainwater retention basins. For this, the IFL 700 IQ sludge level sensor is the ideal solution, also with regard to avoiding sludge drive.

ViSolid® 700 IQ as alternative

If the sludge level does not need to be monitored continuously, but the information that it has reached a certain level is sufficient, the ViSolid® 700 IQ solids sensor is an alternative.

By measuring the concentration of suspended solids it is possible to control the sludge surface at a defined level of the sedimentation basin. With matrix type 1 measuring values between 5 and 20 mg/L are to be expected in clear water, more than 1000 mg/L in comparison occur in the top layer of sludge. Based on these concentration differences, a rising sludge level can be detected by a sudden change of the measured value. A set point of 200 mg/L can be used as an alarm or control signal.

Measuring equipment

- ViSolid® 700 IQ TSS sensor
- IQ SENSOR NET Controller
- Sensor cable in sufficient length
- Mounting accessories

Measuring method and range

- Optical, scattered light method
- 0 ... 25.00 g/L (default settings)

Calibration

Not necessary, as no precise measuring values are required. A sudden change of the concentration of suspended solids through a factor of about 50 should be realized. This is possible with factory calibration.

Do you have further questions?

Please contact our

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