ITX

Optical submersible sensor for suspended solids

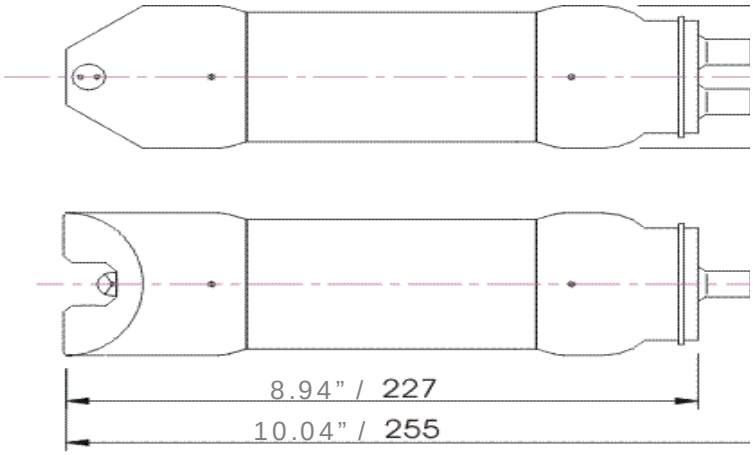
- **Ensures an efficient process in the MLSS**
  Control of the mass balance by monitoring the excess sludge outtake
- **Broad application possibilites**
  Monitors suspended solids in sewage canals
- **Minimal maintenance**
  Sturdy sensor with wide measuring gap. Automatic cleaning with no moving parts
- **Wide measuring range**
  0 - 100 to 20,000 ppm (or mg/l)

Suspended Solids Sensor ITX

for continuos meaurement of suspended solids in aeration basins, return sludge gutters, SBR, etc. Automatic cleaning with built-in flushing and no moving parts guarantees accurate measurement with low maintenance need. ITX is used, for example, to control the right content of sludge in the MLSS. That ensures a balanced sludge age, which gives the best possible process cleaning at different load situations. The sensor is mounted in a probe holder, fastened to the basin rail by a flexible telescopic rod, that contributes to the cleaning effect of the sensor. Up to four ITX sensors (or other sensors in the X-series) are connected to the control box BB2, that shows actual suspended solids content. BB2 has two 4-20 mA out-puts, (Fieldbus optional) and two relay outputs, that can be activated at high/low level of solids concentration or to monitor the automatic flushing device in applications where the flow is low (<0,3m/s). The BB2 menus displys also parameters which alleviates control and feedback. The measuring range is from 0-100 upp till 20,000 ppm (mg/l)

Technical specifications

Mounting	Immersion of sensor in liquid
Material	SS2343 (316SS)
Weight	3.5lbs (1,6 kg)
Optique	BK7
Light source	NIR diode, (880nm)
Sealing	EPDM/Viton
Cable	Hytrel, black, 33” (10 m)
Cleaning	Air or water max 6 bar
Flushing hose	PVC, 33” (10 m)
Enclosure	IP68
Measuring range	Min. 0-100 ppm (mg/l) Max. 0-20,000 ppm (mg/l)
Resolution	10 ppm (10 mg/l)
Ambient temp.	32...+122 °F (0...+ 60 °C))
Connected sensors	Displayed at start-up



Cerlic’s product portfolio contains sensors for measuring and monitoring of the entire process. Our instruments can be used in municipal waste water/water treatment plants and process industries as well as in the pulp and paper industry. The development of our product serie BB2 has been made in close contact and cooperation with our customers and users. Design and function are the key words in this process.

Cerlic®

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