

## Suspended Solids Sensor Submersible Design



- **Wide application range**  
Monitors suspended solids in raw sewage, primary clarifier effluent, MLSS, RAS, filtrate, sewer losses, etc.
- **Stable measuring principle**  
Built-in temperature compensation loop  
Measurement by NIR-light
- **Low maintenance**  
Durable stainless steel sensor head  
Wide 3/4" (20mm) measuring gap  
Flushing system with no moving parts.
- **Easy to use**  
Calibration with lab test in ppm (mg/l)

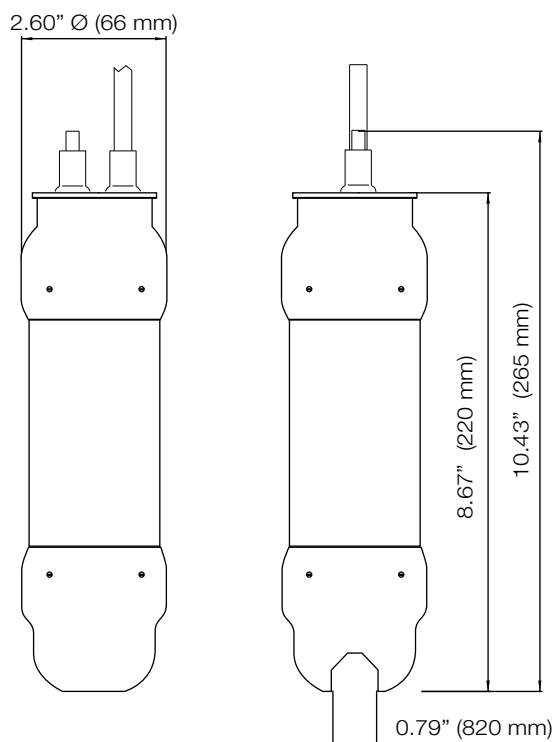
## The ITX Suspended Solids Sensor

is the ultimate tool for effective process control. The sensor is used for continuous measurement of suspended solids in aeration basins (MLSS), return sludge troughs, SBR-systems, raw sewage, primary clarifier effluent and sewer monitoring in industrial plants. The sensor is an integral part of controlling solids retention time (SRT) or sludge age. The measuring principle is a single beam of pulsed NIR-light. The LED light source pulses at 880 nm and has a guaranteed life of at least three years. In each installation the meter is calibrated using actual lab

tests for up to five pbe42/505 sample points. An automatic cleaning system with built-in flushing nozzles ensures accurate measurements with little maintenance. Two ITX sensors (or other sensors in the X-series) can be connected to a single BB2 control box, which provides two 4-20mA outputs. While the BB2 can support up to four sensors, this is reserved for applications utilizing Profibus technology or when applications 4-20 mA signals are not applicable. Sensors are easily connected to the BB2 box with

### Technical specifications

Measuring Principle	Straight transmission of pulsed NIR-light
Mounting	Immersion of sensor in liquid
Material	316SS (2343)
Weight	1.6 kg (3.5lbs)
Sealing	EPDM/Viton
Cable	10 m (33 ft) Hytrel shielded
Cleaning	Air or water, 3-4 bars (40-60 psig)
Flushing hose	1/4" pvc, 10 m (33 ft)
Enclosure	IP 68 (NEMA 6)
Measuring range	
Min.	0-100 ppm (mg/l)
Max.	0-20 000 ppm (mg/l) Depending on type of solids
Process temp.	0... +60 °C (32 ... 140°F)



**Cerlic's product line** contains sensors for measuring and monitoring your process. Our instruments are used in municipal waste water & water treatment plants, industrial and pulp & paper process control. The development of our BB2 product line is the result of increasing demand for instrumentation that is reliable, accurate and durable.



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