

In-line Suspended Solids Sensor



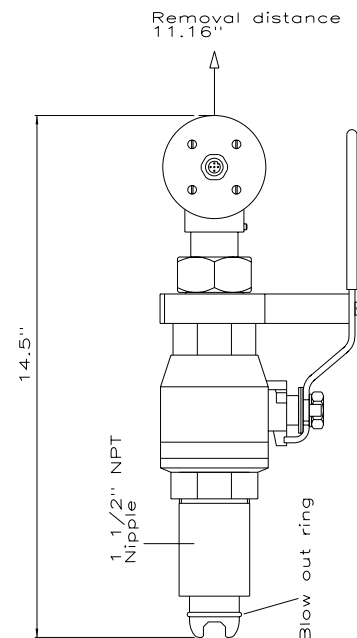
- **Wide application range**
Monitors suspended solids in RAS and WAS.
- **Wide measuring range**
- 0-100 or up to 5 % TS depending on type of solids.
- **Low maintenance**
- Durable stainless steel sensor head with wide measuring gap.
- Flushing system with no moving parts.
- **Stable measuring principle**
- Built-in temperature compensation loop
- Calibration with lab test in mg/l

The ITXIL In-Line Suspended Solids Sensor is the ultimate tool for effective process control supplied with 1 1/2" SS isolation valve. Designed for up to 6 bar applications with built-in mechanical stop. The sensor is used for continuous measurement of suspended solids in RAS, WAS, MLSS and Sand Filter Backwash monitoring in industrial plants. The measuring principle is a single beam of pulsed NIR-light. The LED light source pulses at 880 nm. In each installation the meter is calibrated using actual lab tests for up to five sample points.

An automatic cleaning system with built-in flushing nozzles ensures accurate measurements with little maintenance. Two ITX IL 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 a simple plug & play connection.

Technical specifications

Measuring Principle	Straight transmission of pulsed NIR-light
Mounting	Ball valve with nipple weld.
Material	2343 (316 SS)
Lens	Glass
Design	6 bars (90 psig) max.
Weight	2.8 kg (6.1 lbs) Sensor 3 kg (6.5 lbs) Valve Assm.
Sealing	EPDM, O-rings
Connection	5-pin M12-contact
Cable	10m (33 ft) length
Max run	100 m (300 ft) - 10 cables
Cleaning	Air/water: 8 bars (120 psig) 2 bars (30 psig) over process pressure.
Flushing hose	Ø 6mm (1/4" O.D)
Enclosure	IP 65 (NEMA 4X)
Measuring range	
Min.	0-100 mg/l (ppm)
Max.	0-5 % TS (application dependent)
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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