

# Cerlic

# CTX20/25LC

## Optical Reuse & Low Solids TSS Meter 1" Flow-thru Design



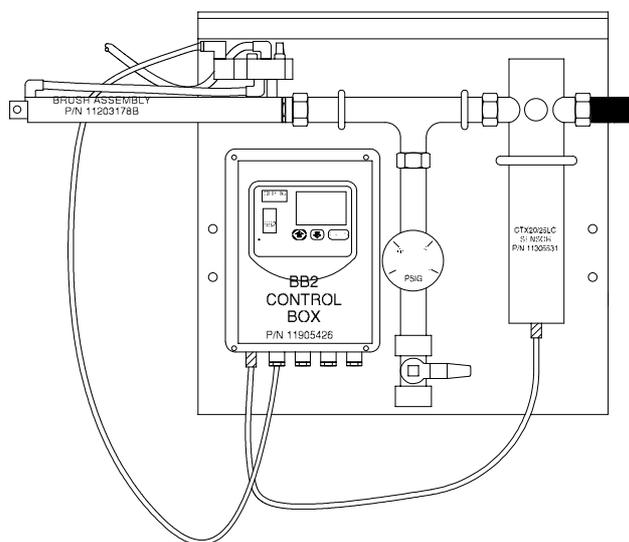
- **Easy to use**  
Self-instructing menu  
Calibration with lab test
- **Low Maintenance**  
No moving parts except  
Automatic Brush Cleaning System
- **Wide measuring range**  
0-10 ppm to 200 ppm  
0.1 ppm increments
- **Stable & Repeatable measuring principle**  
Digital temperature compensation  
True Suspended Solids meter

**The Cerlic CTX20/25LC Low Suspended Solids Sensor** was developed to measure very low solids concentrations in Reuse water and final effluent in the municipal and industrial markets. The **CTX20/25LC** sensor is used to continuously measure solids that are greater than 0.88 microns. The Sensor can be calibrated for 0-10 ppm in increments of 0.1 ppm. New factory set temperature compensation value allows for very stable values all year round. Unit is zero calibrated at factory, so you only need to add a liquid calibration point in the field.

The **CTX20/25LC** is constructed of 316SS with sapphire lenses and supplied with 1" npt couplings. The measuring principle is based on the ability of suspended particles to absorb and reflect NIR-light (near infrared), which is pulsed at 880 nm. The sensor has a 20 mm gap between the lenses, which produces a self-cleaning effect due to the increased

velocity. The Sensor has a **new temperature compensation value**, which is set at the factory, along with a zero calibration value. This leads to very stable values, even with seasonal liquid temperature changes. The Meter is supplied with automatic brush cleaning system, which is activated every 30 minutes to remove any solids or algae build-up from the lens.

The sensor is precalibrated for quick and easy start-up. Reuse applications should have at least two sample values, one before and one after the sand filters to give a wide measuring range. Two **CTX** sensors (or other sensors in the X-series) can be connected to a single **BB2** control box, which provides two 4-20 mA outputs. The **BB2** box is built with the ability to add an interface board that allows connection to a fieldbus.



### Technical Specifications

<b>Material</b>	316SS	<b>Brush Control</b>	Activated by BB2 box
<b>Weight</b>	24 lbs (10.9 kg)	<b>Measuring Range</b>	Min. 0.0-10.0 ppm Max. 0-200 ppm
<b>Connections</b>	1" npt	<b>Flow Rates</b>	10 gpm (min) @ 15 psig
<b>Pressure rating</b>	365 psig (PN25)	<b>Ambient Temp</b>	32° to 140° F (0..+60°C)
<b>Light Source</b>	GaAs diode, 880 nm	<b>Process Temp</b>	32° to 122° F (0..+50°C)
<b>Cable</b>	5-digit, M12-contact 3' (1m) length		
<b>Brush Assembly</b>	60 psig air to piston		

**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.



Cerlic Environmental Controls, Inc.  
P.O. Box 420097 Atlanta, GA 30342 Ph. 404-256-3097  
www.cerlic.com e-mail info@cerlicusa.com