



The flexible spring-loaded mounting bracket is designed to withstand turbulent conditions. The fiberglass telescopic rod is extendable to 4 meters and can be removed easily for inspection.



SS Slide rail assembly for easy installation and servicing. Available in two sizes 20 mm Ø for pHX, ReX and FLX and 66 mm Ø for O2X and ITX sensors. The rail has field adjustable stop. It's easy to install and to inspect sensors for cleaning and calibration.



The automatic flushing device has no moving parts and ensures minimal maintenance and enhanced reliability. The flushing nozzle uses water or compressed air.



CBX with mounting assembly for easy attachment to handrail. Automatic flushing system of cable and sensor after each cycle.

## ABOUT CERLIC

Cerlic develops, manufactures and markets instruments for on-line measurement and monitoring of process parameters. The target business areas are primarily wastewater treatment plants, pulp and paper mills and other process industries. Our line of instruments is characterized by a high degree of quality, functionality and user-friendliness.

Cerlic Controls was founded 1977. Our knowledge and experience of processes and applications combined with our rugged measuring instruments provides customers with reliable and continuous on-line information as well as enhanced knowledge about plant processes. Factory calibrated sensors allow for immediate measuring after installation. Easy operation and minimal maintenance separates Cerlic from the competition.

Since 2005 Cerlic is a subsidiary of the Eletta Group, a global organisation with its base in Sweden. Subsidiaries in Asia, Europe, North America, plus a world wide distributor network ensures sales and service support.

At Cerlic, our relationship with customers begins with the sale rather than ends. We offer training courses regularly in order to increase "users" knowledge about both the process and the instruments. Our dedication to "service after the sale" is reflected in our existing customers' loyalty.

# Sensors for Continuous Process Control

Designed for Water & Wastewater Treatment Applications



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*When Reliability Counts*



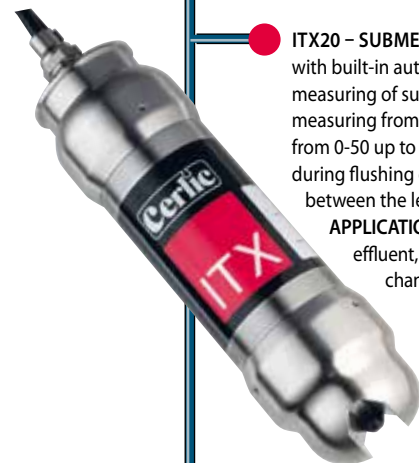
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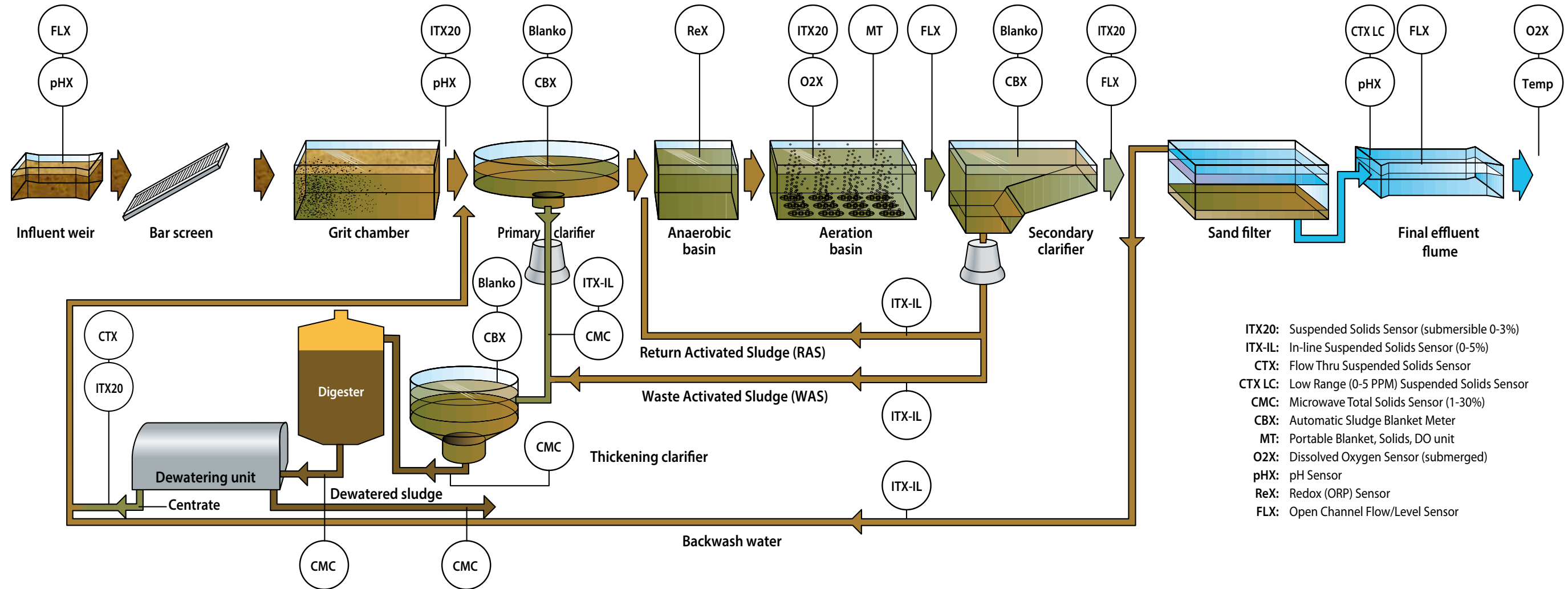




**BB1/BB2 UNIVERSAL CONTROL BOX**  
That will support a combination of one to four different digital sensors. The plug & play capabilities ensure easy installation. The units are designed with the latest digital technology and software, making them easy to upgrade. The BB2 generates up to four 4-20 mA isolated output signals and can be upgraded with protocol board for 4 digital output signals. Same control box for all X series sensors. The BB1 supports one sensor but can generate up to four mA or four digital output signals with expansion cards.



**ITX20 - SUBMERSIBLE SUSPENDED SOLIDS SENSOR**  
with built-in automatic flushing system. Optical on-line measuring of suspended solids. Two versions available; ITX20, measuring from 0-100 up to 30,000 ppm and ITX40 range from 0-50 up to 2,000 ppm. Output signal is held constant during flushing cycle. Wide 3/4" (ITX20) or 1 1/2" (ITX40) gap between the lenses to alleviate solids plugging.  
**APPLICATIONS:** Influent, primary and 2nd clarifier effluent, MLSS in aeration basins, RAS in open channels, filtrate and centrate.



- ITX20:** Suspended Solids Sensor (submersible 0-3%)
- ITX-IL:** In-line Suspended Solids Sensor (0-5%)
- CTX:** Flow Thru Suspended Solids Sensor
- CTX LC:** Low Range (0-5 PPM) Suspended Solids Sensor
- CMC:** Microwave Total Solids Sensor (1-30%)
- CBX:** Automatic Sludge Blanket Meter
- MT:** Portable Blanket, Solids, DO unit
- O2X:** Dissolved Oxygen Sensor (submerged)
- pHX:** pH Sensor
- ReX:** Redox (ORP) Sensor
- FLX:** Open Channel Flow/Level Sensor



**O2X DUO - SUBMERSIBLE DISSOLVED OXYGEN SENSOR**  
With built-in automatic flushing system. Output signal is held constant during flushing cycle. Calibration only required once every 6-12 months. Oxygen electrode is a cartridge design with built-in temperature sensor for continuous temperature compensation.  
**APPLICATION:** aeration basins, final effluent w/ temp. output, aerobic digesters, SBR, etc.



**CTX LC - LOW SUSPENDED SOLIDS SENSOR**  
True Suspended Solids Meter for FINAL EFFLUENT and REUSE WATER applications. Sensor is zero and temperature calibrated at factory, so you only enter actual sample points from lab tests in the field. Measuring ranges from 0-10 mg/l up to 1 000 mg/l. Meter does not drift with time and is calibrated with lab TSS tests. Automatic brush cleaning system keeps lenses clean.  
**APPLICATION:** reuse water, final effluent, recycled water, DAF supernatant, etc.



**ITX-IL - IN-LINE SUSPENDED SOLIDS SENSOR**  
In-line optical transmitter using NIR (near-infrared) light for measurement of suspended solids from 0-50,000 ppm. 15 mm gap between lenses and built-in flushing nozzle to alleviate frequent cleaning of lenses. Supplied with 1 1/2" 316 SS isolation valve and attachment nipple. Designed for up to 90 psig applications.  
**APPLICATIONS:** Return (RAS) and waste (WAS) activated sludge, MLSS, and filter backwash lines, etc.



**FLX - IMMERSION SENSOR FOR OPEN CHANNEL FLOW OR DEPTH**  
Flow or Level measurement using differential pressure sensor accurate to 0.1". Reliable measurement not effected by foam and wind plus dampening of signal for bouncing liquid surfaces. Ventilated cable compensates for atmospheric pressure changes. New zero and full range calibration feature.  
**APPLICATIONS:** Measure flow as a function of liquid height in open channels, rectangular weir, parshall flumes, etc and liquid height on sand filters.



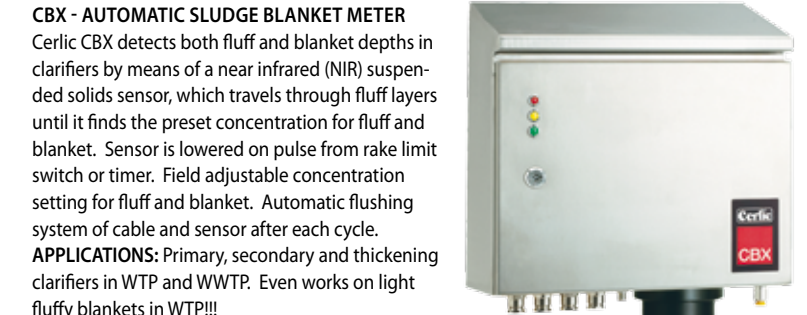
**pHX AND ReX - SENSORS**  
pHX is "Smart" calibrated with 4, 7, 10 buffers or manually with any buffers. ReX requires no calibration but can be checked with standard mV solutions. Flushing system is normally supplied to alleviate cleaning of electrodes.  
**APPLICATIONS pH:** pHX influent, effluent, aeration basins, etc.  
**APPLICATIONS ORP:** ReX nitrification basins, chlorine contact basins, aeration basins, etc.



**CMC - MICROWAVE HIGH TOTAL SOLIDS CONCENTRATION METER**  
Sensor for continuous online measurement of total solids from 1% to 30% in Aerobic or Anaerobic sludge's. New true phase technology with 5 frequency's for more accurate measurement. Does not require special attention after empty pipe due to built-in recalibration feature. Wafer design in 3" - 12" sizes and 3.94" F/F for all sizes.  
**APPLICATIONS:** High Solids applications like primary clarifier underflow, or anaerobic sludge feed to centrifuges.



**MULTI-SERIES**  
**Portable MultiTracker - Portable instruments for DO/Blanket/Suspended Solids**  
Central handheld controller will support the various sensors like OxyDuo (DO), Blanko (Sludge Blanket) or Solido (suspended solids). Sensors can be easily exchanged in the field and stored in supplied PVC carrying case for 2 or 3 sensors. Sensor cable lengths of 13', 26' or 39' (4,8,12m) are available. Blanko provided with pressure sensor. MT can store up to 250 samples like Blanket & Fluff depths and you can enter up to 50 fields or locations to store data under. The data can easily be downloaded to your computer with the optional USB communication cable.



**CBX - AUTOMATIC SLUDGE BLANKET METER**  
Cerlic CBX detects both fluff and blanket depths in clarifiers by means of a near infrared (NIR) suspended solids sensor, which travels through fluff layers until it finds the preset concentration for fluff and blanket. Sensor is lowered on pulse from rake limit switch or timer. Field adjustable concentration setting for fluff and blanket. Automatic flushing system of cable and sensor after each cycle.  
**APPLICATIONS:** Primary, secondary and thickening clarifiers in WTP and WWTP. Even works on light fluffy blankets in WTP!!!