



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.

## 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 MEASUREMENT

in waste water treatment and industrial processes



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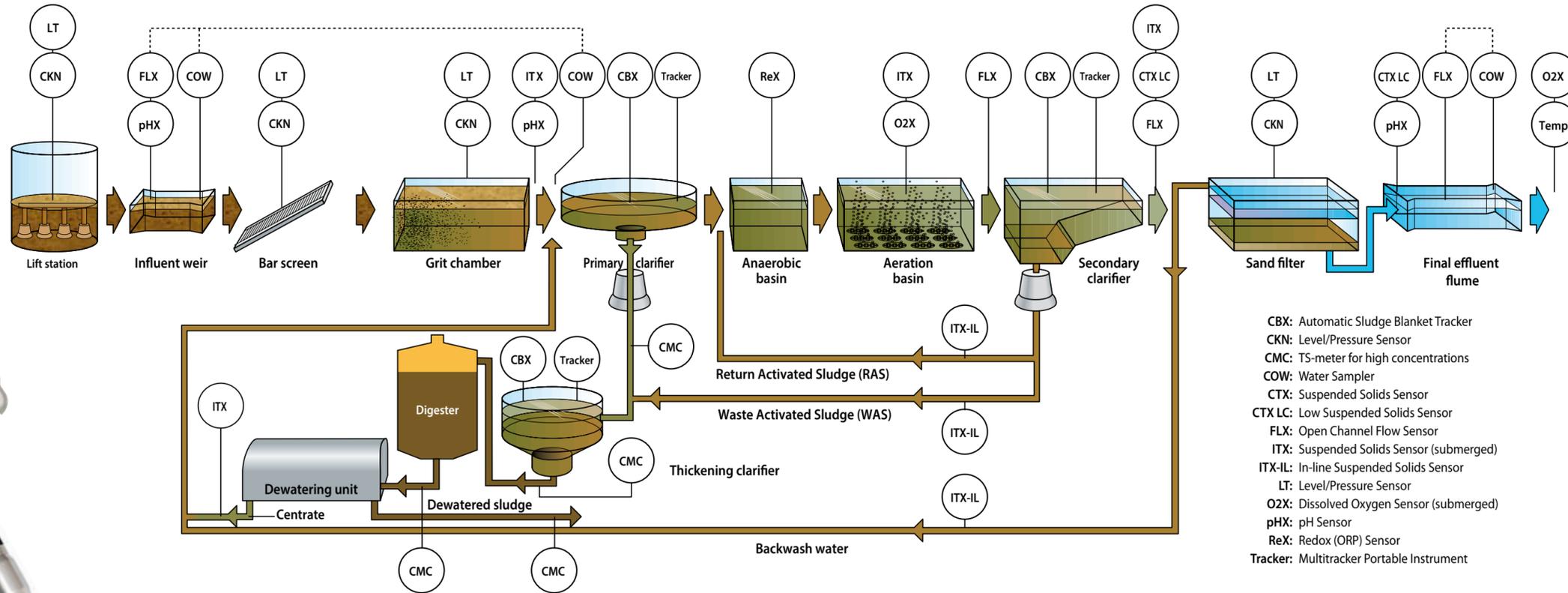
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*Sensors for your process*





**BB1/BB2 - CENTRAL UNITS**  
that will support a combination of one/four different digital sensors. The plug & play capabilities ensure easy installation. The units are designed with the latest cutting edge 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 style sensors. All sensors are factory calibrated, push the enter button twice and off you go.



**ITX - SUBMERSIBLE SUSPENDED SOLIDS SENSOR**  
with built-in automatic flushing system. Optical transmitter using continuous on-line measuring of suspended solids from 0-100 up to 20 000 mg/l. Output signal is held constant during flushing cycle. Wide 20 mm gap between lenses to alleviate solids plugging. **APPLICATIONS:** influent, primary effluent, aeration basins (MLSS), return activated sludge (RAS), filtrate, etc.



**O2X DUO - SUBMERSIBLE DISSOLVED OXYGEN SENSOR**  
with built-in automatic flushing system. Output signal is held constant during flushing cycle. Calibration needed only once every 6-12 months. Oxygen electrode is cartridge design with built-in temperature sensor for continuous compensation. **APPLICATION:** aeration basins, final effluent w/ temperature output, 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 to 50 000 mg/l in RAS, WAS, etc. 15 mm gap between lenses and built-in flushing nozzle to alleviate solids plugging. Supplied with 1 1/2" SS isolation valve. Designed for up to 90 psig applications. **APPLICATIONS:** return and waste activated sludge (RAS/WAS), MLSS, Sand Filter Backwash monitoring, etc.



**FLX - IMMERSION SENSOR FOR OPEN CHANNEL**  
Flow measurement using D/P (differential pressure) sensor accurate to 0.1". Reliable measurement not effected by foam, wind or 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, aeration basins, clarifiers, weirs, etc.



**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.



**CKN - LEVEL/PRESSURE SENSOR**  
Robust construction for reliable measuring over a wide range, 0-5/10/20 mvp. The cable sheath gives high resistance to aggressive materials and fluids. Not affected by foam, wind or turbulent water surface. **APPLICATIONS:** lift stations, tanks, lakes, rivers etc.



**LT - LEVEL/PRESSURE SENSOR**  
Piezoresistive sensor in stainless steel with totally enclosed electronics and cable inlet. Comes in different executions; Sensor with small diameter Ø 20 mm for immersion in tight spaces. Sensor with lightning protective system, digital electronics, zeroing function, Exia-execution, adjustable measuring range etc. Ranges from 0-0,02 mvp up to 0-200 mvp. Cable length up to 1000 m.



**CMC - HIGH CONCENTRATION TOTAL SOLIDS METER**  
Sensor for continuous online measurement of suspended solids up to 30% TS. Dimensions from DN50 up to DN300. **APPLICATIONS:** high % primary, dewatered or digested sludge.



**COW - WATER SAMPLER**  
Industrial effluent and raw sewage sampler. Vacuum pump design w/large 19 mm suction and discharge hoses. Built-in automatic flushing system for constant cleaning. Always grabs the same sample volume due to adjustable sample tube. User friendly configuration for flow proportional, time intervals or special sampling intervals. The COW has prevacuum option for sampling more than 3 m and lift (6 m max). Option: SS constant temperature refrigerator for sample storage. **APPLICATIONS:** influent, effluent, MLSS, RAS, etc.



**MULTI-SERIES**  
Multitracker - Portable instrument for several parameters  
Choose your sensor for suspended solids, sludge levels or oxygen. You can easily change sensors by means of a simple contact connection. Data logger to store up to 250 samples. The log can easily be transferred to your computer via the contact connection.



**CBX - AUTOMATIC SLUDGE BLANKET METER**  
Cerlic CBX detects the blanket by means of a near infrared (NIR) suspended solids sensor, which travels through fluff layers until it finds the preset blanket solids concentration. Sensor is lowered on pulse from rake limit switch or timer. Field adjustable concentration setting. Automatic water flushing system of cable and sensor after each cycle. **APPLICATIONS:** CBX is a sludge blanket meter for measurement of blanket depth in clarifiers and thickeners in WWTP and WTP.

