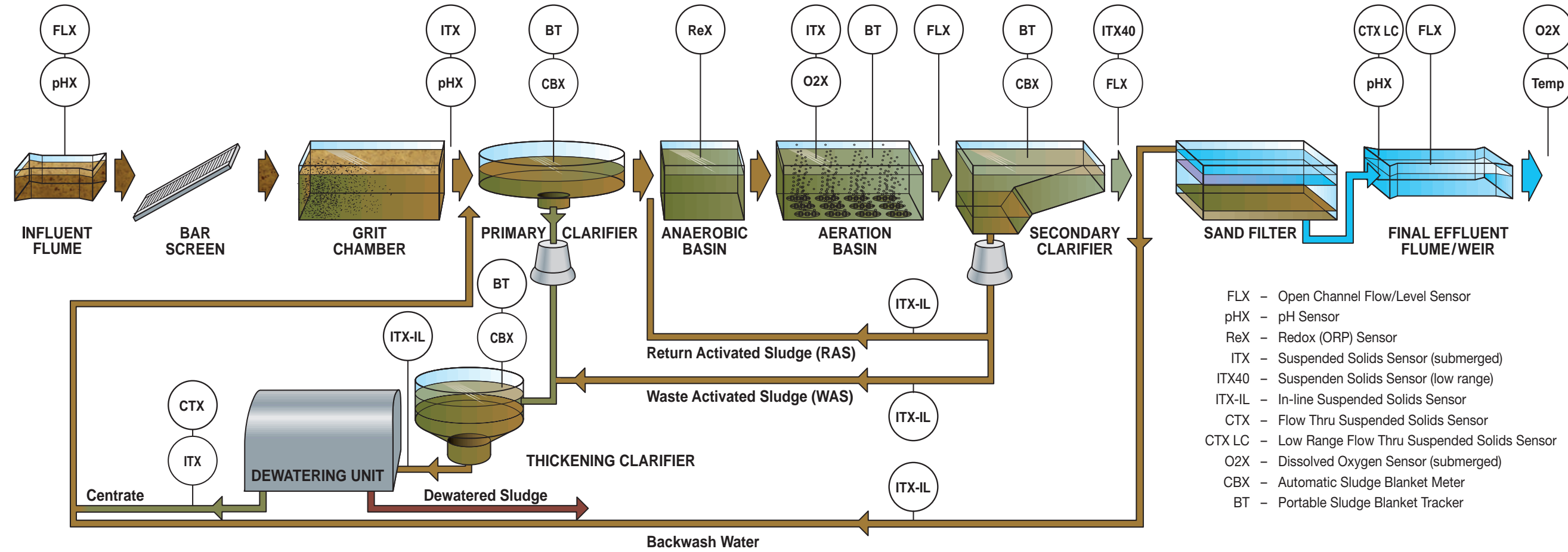




BB2 - UNIVERSAL CONTROL BOX that will support any combination of up to four different digital sensors. The plug & play capabilities ensures for easy installation. The box is designed with cutting edge technology and easily upgradable software. Generates up to four 4-20 mA isolated output signals and can be upgraded with protocol board for ProfiBus DP. Built in heater enables outdoor mounting in harsh climate. Same control box for all X style sensors. All sensors are factory calibrated, push the enter button and off you go. Optional BB1 control box for one sensor with two mA output.



- FLX - Open Channel Flow/Level Sensor
- pHX - pH Sensor
- ReX - Redox (ORP) Sensor
- ITX - Suspended Solids Sensor (submerged)
- ITX40 - Suspended Solids Sensor (low range)
- ITX-IL - In-line Suspended Solids Sensor
- CTX - Flow Thru Suspended Solids Sensor
- CTX LC - Low Range Flow Thru Suspended Solids Sensor
- O2X - Dissolved Oxygen Sensor (submerged)
- CBX - Automatic Sludge Blanket Meter
- BT - Portable Sludge Blanket Tracker

ITX20 & ITX40 - 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.

O2X - SUBMERSIBLE DISSOLVED OXYGEN SENSOR with built-in automatic flushing system. Output signal is held constant during flushing cycle. Calibrate once every 6-12 months. Oxygen electrode is reliable Clark cell cartridge design with built-in temperature sensor for continuous compensation. Analog output for temperature is included. **APPLICATIONS:** 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 TSS tests in the field. Measuring ranges from 0-10.0 ppm up to 1,000 ppm. Meter does not drift with time. Automatic brush cleaning system keeps lenses clean. **APPLICATIONS:** reuse water, final effluent, recycled water, DAF supernatant, etc.

ITX-IL - IN-LINE SUSPENDED SOLIDS SENSOR
In-line optical sensor using NIR (near-infrared) light for measurement of suspended solids from 0 to 50,000 ppm in RAS, WAS, etc. 9/16" (15 mm) gap between lenses and built-in flushing nozzle to alleviate frequent cleaning or plugging of lenses. 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.

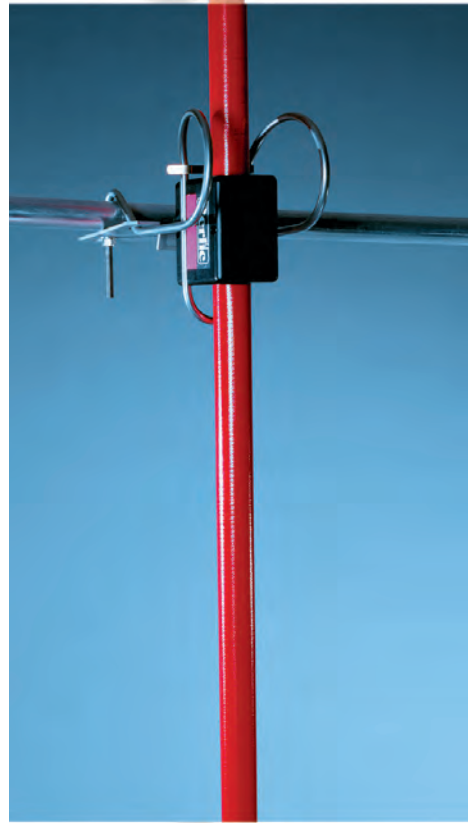
FLX - IMMERSION OPEN CHANNEL FLOW/LEVEL SENSOR
Flow measurement using D/P (differential pressure) Sensor accuracy ±0.1". Reliable measurement not effected by foam, wind or bouncing liquid surfaces. Ventilated cable compensates for atmospheric pressure changes. New zero and full range calibration feature. **APPLICATIONS:** Measure flow as a function of liquid height in open channels, aeration basins, clarifiers, weirs, etc.

pHX AND ReX (ORP) - 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 and an offset can be performed. Flushing system is normally supplied to alleviate frequent cleaning of electrodes. **APPLICATIONS pH:** pHX influent, effluent, aeration basins, etc. **APPLICATIONS ORP:** ReX nitrification basins, chlorine contact basins, aeration basins, etc.

CBX - AUTOMATIC SLUDGE BLANKET METER
Cerlic CBX detects both fluff and blanket depths at preset concentrations by means of a suspended solids sensor. Sensor is lowered by a pulse from a limit switch activated by the rake trip arm. Blanket and fluff blanket concentrations are field adjustable. Built-in automatic water flushing for cable and sensor after each cycle. CBX combined with BB1 Control Box **APPLICATIONS:** Measurement of blanket depth in clarifiers and thickeners in WWTP and WTP.

BT - PORTABLE SLUDGE BLANKET TRACKER
Hand held tracker for measuring of fluff and blanket depths, profile and suspended solids. Desired Fluff & Blanket concentrations may be pre-programmed in order for tracker to alarm and display these depths. Robust waterproof housing for demanding environments that even floats. Profile display shows blanket concentration versus depth. Built-in vibrator and acoustic signals alerts operator when preset fluff and blanket concentrations are reached. Data logger to store up to 250 samples under fields like Clarifier #1, etc setup by operator. **APPLICATIONS:** WTP - Lamella & Thickening Clarifiers, WWTP - Primary, Secondary & Thickening Clarifiers





The flexible spring-loaded mounting bracket is designed to withstand turbulent conditions. The fiberglass telescopic rod is extendable to 13.5 feet and can be removed easily for inspection.



SS Slide rail assembly for easy installation and servicing. Available in two sizes 1.10" Ø for pHX, ReX and FLX and 2.60" 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.



When Reliability Counts

Get control of your process

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.

Service & Training

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.



When Reliability Counts

Sensors for Continuous Measurement in Wastewater Treatment and Industrial Processes



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