

# AUTOMATIC SLUDGE BLANKET METER

See the blanket



■ **Accurate & reliable measurement of blanket and fluff depths**

- Optical suspended solids sensor determines blanket depths as a function of concentration

■ **Low maintenance**

- Automatic flushing of cable and sensor

■ **Optimize solids concentration from clarifiers and thickeners**

- Maintain a constant sludge level  
- Ensures pumping of solids rather than water  
- Prevent clarifier washouts

■ **Easy to calibrate**

- Self-instructing menu

## CERLIC CBX

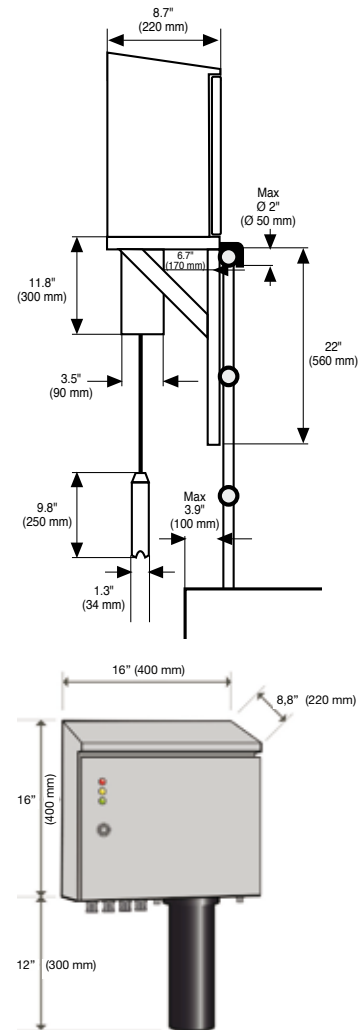
Is a sludge blanket meter for reliable, repeatable and accurate measurement of fluff & blanket depths in clarifiers and thickeners. Measuring depth is 0-33 ft (0-10 m). Determination of sludge levels in primary and secondary clarifiers will help avoid solids wash outs and allow for better solids inventory control. Blanket monitoring in a thickener is important in order to optimize the sludge concentration, which means less water pumped to the digester or dewatering equipment. Cerlic CBX detects the

fluff and blanket levels by means of a near infrared (NiR) suspended solids sensor, which travels until it finds the preset fluff and blanket solids concentration. CBX is supplied with SS Housing and SS mounting hardware for easy attachment to the handrail. Automatic water flushing of cable and sensor after each cycle. Built-in heater allows outdoor mounting even in cold climates. The CBX units is connected to a BB2 control box and generates up to 4 mA outputs or Profibus DP output signals.

### TECHNICAL SPECIFICATIONS

Power Supply	115V/60 Hz (230V/50 Hz)
Power consumption	1 A, during measuring cycle 4 A with heater running
Flush Water Supply	¼" NPT, male fitting
Flush water pressure	Min 30 psig to Max 60 psig
Enclosure	316 SS, Nema 4 (IP65)
Operating temp	23-122°F (-5 - +50°C) standard -4 - 122°F (-20 - 50°C) with jacket, option
Weight	55 lbs (25 kg) including mounting brackets
Dimensions	15.7" H x 8.7" D x 15.7" W (400 x 220 x 400 mm)
Limit Switch	24 VDC powered loop from CBX N/O contact, (supplied by Cerlic)
Measuring Depth	0-33 ft (0-10m)
Measuring Range	CBX 0-20,000 ppm *
Resolution	CBX +/- 50 ppm*
Measuring Principle	NIR Optical Suspended Solids Sensors
Sensor Material	316 SS, lenses BK7 glass
Sensor Rating	Class 1 Division 2, fold back power if sensor cable is cut
Sensor lowering speed	29.6'/minute (15 cm/s)
Mounting brackets	1 ½" handrail u-bolts as standard 4" & 6" angle handrails as option

\* depending on type of sludge



### CBX

BB2 Control box is used with CBX. The BB2 is equipped with the latest in communication protocols for compatibility with a wide array of automation systems. The BB2 control box comes with two 4-20 mA outputs as standard.

It can support up to four 4-20 mA outputs or Profibus DP digital output signals. Relay outputs in the BB2 are used for high and low alarms or to provide a pulse for automatic cleaning of sensors. Additional information can be found in our BB2 brochure.



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