

AUTOMATIC SLUDGE BLANKET METER

See the blanket



- **New**
 - CBX plus - higher measuring range up to 50,000 ppm
 - CBX plus - increased resolution to 1 ppm
- **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

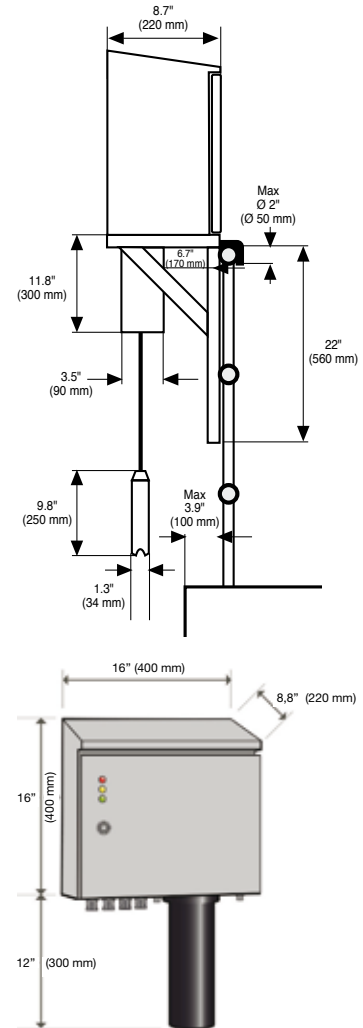
CERLIC CBX

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 BB1 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 (2 bar) to Max - 60 psi (4 bar) |
| 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 * CBX Plus 0-50,000 ppm * |
| Resolution | CBX +/- 50 ppm* CBX Plus +/- 1 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/CBX PLUS

BB1 Control box is used with CBX so one sensor per BB1 box. The BB1 is equipped with the latest in communication protocols for compatibility with a wide array of automation systems. The BB1 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 BB1 are used for high and low alarms or to provide a pulse for automatic cleaning of sensors. Additional information can be found in our BB1 brochure.



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