CF-200 CHLOROPHYLL A IN WATER MONITOR

Algae Bloom Detection

Benchmark International is proud to present the CF-200 Algae Monitor. Using the C-Fluor fluorescence probe, the online monitor is fully integrated and ready to detect Chlorophyll A in fresh or sea water.

Plankton biomass in sea water can be variable by season, weather and other uncontrollable conditions. Industrial plants with sea water intake can be affected by high plankton concentrations. Reverse osmosis desalination systems can have high differential pressure, and when treated with chlorine, can have high disinfection byproducts in the membrane permeate.

Chlorophyll A

Chlorophyll A is the primary pigment in algae. Its measurement in sea water is an effective method of tracking total plankton concentration.

In pretreatment to a reverse osmosis membrane system, the algae concentration should be below 100 micrograms/liter (ppb), which corresponds with 2 micrograms/liter Chlorophyll A.



FEATURES

- C-Fluor fluorescence probe
- Bypass assembly display and transmitter for continuous measurement of Chlorophyll-A.
- Plant operator alerts
- No chemicals, reagents or moving parts
- Not susceptible to bubbles, silt or other debris
- Low maintenance, long life probe (>5 years)
- Easy cleaning with bypass and isolation assembly
- Controller powered LED display and 4-20 mA signal
- Mounted on 316SS back plate, ready for installation



SPECIFICATIONS

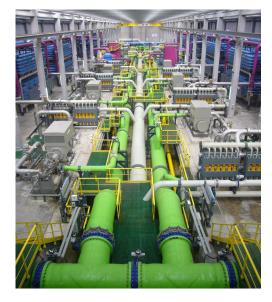
- 0-100 ug/l chlorophyll measurement range
- 1" PVC union fitting process connection
 Threaded or socket connection
- Titanium metallic & CPVC wetted parts
- 3 bar (45 PSI) max pressure

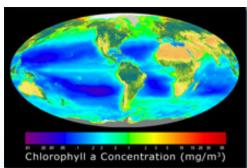
ALGAE MONITOR DISPLAY AND CONTROLLER

- Digital panel meter with NEMA 4X, IP65 front
- Dual-line 6-digit display, 0.6" (15 mm) & 0.46" (12 mm)
- 2 Relays 3A form C alarm relays (SPDT-3A at 250 VAC)
- 4-20 mA output
 Loop or internally powered
 Up to 7000hm
- 85-275 VAC power supply
- 20W max power consumption
- NEMA 4X, IP 65
- Operating temperature range: -40 to 65 °C (-40 to 150 °F)

DISPLAY & CONTROLLER UL LISTING FOR ELECTRICAL SAFETY

- UL & C-UL listed: USA & Canada
- UL 508 industrial control equipment
- UL file number: E160849
- Low voltage directive: EN 61010-1:2010 safety requirements for measurement, control, and laboratory use





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