

cyanowatch™

Online Fluorometer



CyanoWatch Online Fluorometer

Increased customer awareness of water quality problems associated with algal blooms creates the need for a continuous, simple, and accurate solution to monitor the concentration of cyanobacteria in water.

With CyanoWatch you are able to track changes in the cyanobacteria population over time that can provide early warning of algal blooms. Using improved process control and response, you can reduce the amount of treatment chemicals required and improve customer satisfaction by minimizing taste and odor problems and increasing filter run time.

Fresh Water and Ocean Water Options: CyanoWatch continuously senses the concentration of either phycocyanin or phycoerythrin (two accessory pigments unique to cyanobacteria). The phycocyanin version of CyanoWatch is for freshwater applications and the phycoerythrin version is for use in marine waters.

Applications

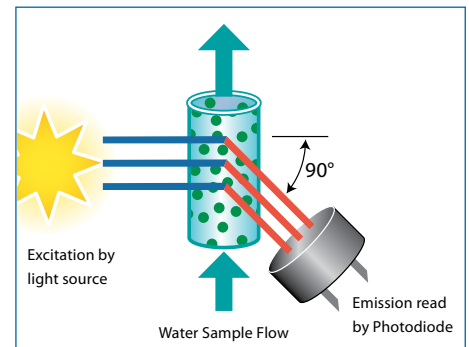
- Public Water Systems
- Water Monitoring Facilities



CyanoWatch Highlights

- Detect the onset of blue-green algae
- Detect the presence of taste and odor-causing species
- Eliminate or decrease frequency of cell counting
- Improve filter run times
- Easy Maintenance: Clean-out port and brushes allow simple routine maintenance

Fluorescence Detection System



CyanoWatch consists of a micro-processor-based fluorometer with electrical inputs/outputs for a flow switch, 4–20mA signal output, and data logging.

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CyanoWatch Specifications

Sensitivity	150 cells/mL
Linear Range	0 - 50,000 cells/mL
Accuracy	±0.2 µg/L or 3% of the reading, whichever is greater
Repeatability	±3%
Calibration	1 point calibration (standard and blank)
Data Storage	Up to 20,000 points

All specifications determined at constant temperature. Temperature fluctuations, high turbidities and the presence of interfering compounds may result in greater error.

CyanoWatch Physical Specifications

Weight	5 lbs; 2.3 kg
Dimensions	8" W x 4" D x 15" H 20 cm W x 10 cm D x 38 cm H
Enclosure	Approximates NEMA 4X
Ambient Temperature	40°F to 120°F; 4°C to 49°C
Maximum Sample Temperature	140°F; 60°C
Relative Humidity	0–100%
Maximum Water Pressure	100 psi

CyanoWatch Electrical Specifications

Power	90–250 VAC/200–250 VAC, 50/60 Hz, 5 amps
Signal Output	4–20 mA, isolated
Relays	2 x 90-250 VAC/200-250 VAC, 50/60 Hz, 5 amps (fused at 3.15 amps ea. Type "F"), 1 x 0-5V DC

Ordering Information

INSTRUMENT	PART NUMBER
CyanoWatch Online Fluorometer - Phycocyanin Version	6600-000
CyanoWatch Online Fluorometer - PhycoerythrinVersion	6602-000

CYANOWATCH ACCESSORIES	PART NUMBER
Calibration Kit	6500-900
Inlet/Outlet Plumbing Kit	6500-955
Luer Lock, Flow Cell Replacement (Qty 1)	3000-150
Luer Locks, Caps (Qty 2)	6500-901
Dessicant Plugs (Qty 3)	6000-970
Flowcell Brushes (Qty 3)	6000-350
Basket Strainer	119-0103

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