

# algaewatch™

## Online Fluorometer



### AlgaeWatch Online Fluorometer

The AlgaeWatch is the ideal tool for water resource managers and scientists interested in real-time monitoring of water quality. Easy-to-use and install, the AlgaeWatch provides a continuous indication of the algal biomass in water, thus allowing for the early detection of algal blooms, detection of nuisance species, and a measure of daily and seasonal fluctuations in the algal community.

AlgaeWatch is an on-line monitor that detects algal biomass through chlorophyll fluorescence. Chlorophyll, the primary photosynthetic pigment in all plants, is a fluorescent molecule. Where chlorophyll-containing organisms are small enough (as with phytoplankton or microalgae), fluorescence may be measured directly (*in vivo* chlorophyll detection) without extraction or chemical treatment.

### Applications

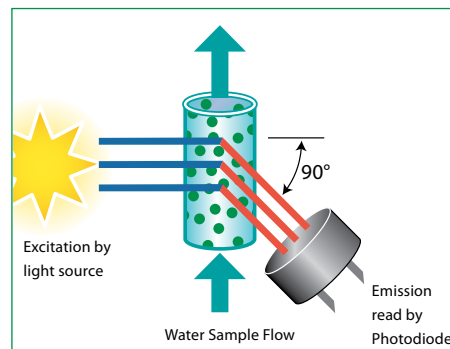
- Public Water Systems
- Water Monitoring Facilities



### AlgaeWatch Highlights

- Detect the onset of algal blooms
- 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



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

# algaewatch™

## Online Fluorometer



### AlgaeWatch Specifications

Sensitivity	0.1 µg/L Chlorophyll
Linear Range	0–200 µg/L Chlorophyll
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.

### AlgaeWatch 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

### AlgaeWatch 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

<u>INSTRUMENT</u>	<u>PART NUMBER</u>
AlgaeWatch Online Fluorometer	6500-000

<u>ALGAEWATCH ACCESSORIES</u>	<u>PART NUMBER</u>
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

## Contact Us

Toll-Free : 1.877.316.8049

Email : [sales@turnerdesigns.com](mailto:sales@turnerdesigns.com)

Address:

Phone : 408.749.0994

Web : [www.turnerdesigns.com](http://www.turnerdesigns.com)

845 West Maude Avenue

Fax : 408.749.0998

Sunnyvale, CA 94085