

CyanoFluor™

Handheld HAB Indicator



Predict the Onset of Harmful Algal Blooms

CyanoFluor™ Handheld HAB Indicator

Early identification of harmful algal blooms (HABs) is important to be able to leverage resources to protect public health. CyanoFluor™ is a field-portable fluorometer which quickly performs calculations providing an indication of whether environmental conditions are changing, favoring cyanobacterial production which typically lead to HABs. CyanoFluor firmware provides PC (phycocyanin) to CHL (chlorophyll) ratios for determining relative contribution of the cyanobacterial population within whole phytoplankton populations. Monitoring PC to CHL ratios over time enables users to spot the increase of cyanobacteria as an early indication of HAB development. Predicting the onset of these types of blooms is critical for controlling and mitigating their harmful effects.

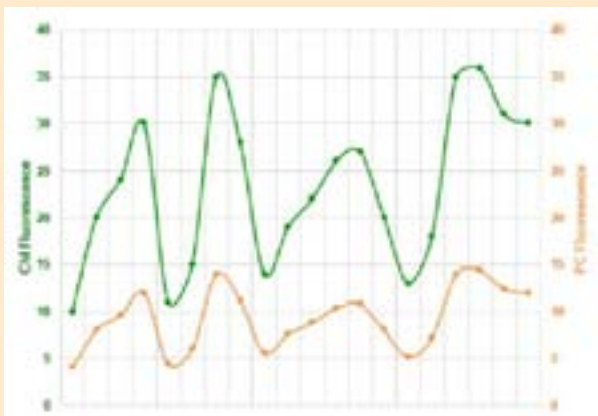


Highlights of the CyanoFluor™

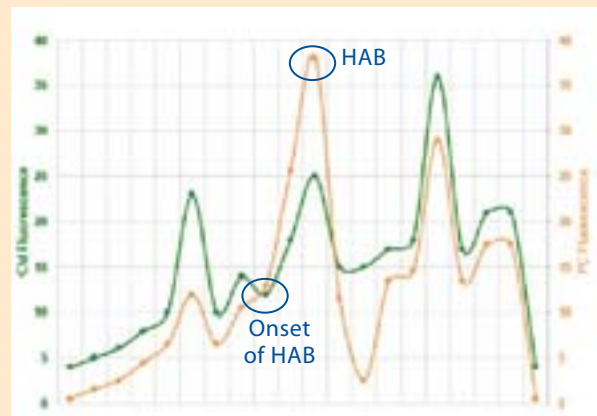
- Estimate Abundance of Cyanobacteria
 - PC:CHL Ratios Automatically Calculated
 - Raw Fluorescence Tracking
- Excellent sensitivity and repeatability
 - PC MDL = 0.3 µg/L
 - Chlor MDL = 0.3 µg/L
- Factory Calibrated
 - Results in <30 seconds
 - Quick Calibration Check
- Portable
 - Handheld, Battery-Powered
 - Highly Durable Case
 - Internal Data Logging

Raw water samples can be quickly analyzed with results displayed in less than 30 seconds. Simply insert a cuvette with your sample and press READ. PC:CHL ratios are displayed and logged, and can be downloaded at a later time. Raw fluorescence readings are also displayed and can be correlated to PC or chlorophyll µg/L concentrations. Fluorescent dissolved organic matter (fDOM) will cause interference when measuring chlorophyll. The CyanoFluor steps through a filtrate correction to eliminate, if not minimize the effects from DOM interference. CyanoFluor uses a special sample well allowing glass or quartz cuvettes to be used for measuring samples, providing the best and most repeatable measurements.

CyanoFluor is factory-calibrated meaning no calibration standards or tools are required; solid-state opto-electronics ensure long term instrument stability. CyanoFluor's intuitive functions, self-contained design, small size, internal data storage and field portability make it an ideal instrument for HAB monitoring efforts.



Monitoring PC levels alone will not provide enough information to determine the onset of HABs as it may simply reflect changes in the total algal population.



By monitoring pigment ratios, PC:CHL, you can get an early indication that conditions are favoring cyanobacterial production which typically lead to HABs.

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CyanoFluor™ Specifications

MDL	0.3 µg/L
Linear Range	0-100 µg/L
Linearity	0.99R ²
Weight in Air	13.9 oz; 0.4 kg
Size	1.75" x 3.5" x 7.25"; 4.45 cm x 8.9 cm x 18.4 cm
Warm-up Time	5 seconds
Case	IP 67 standard; dustproof/waterproof
Temperature	41-104°F; 5-40°C
Power	4 AAA batteries (standard or rechargeable)
Max Data Capacity	1,000 measurements
Data Output	ASCII via USB

Ordering Information

INSTRUMENT PACKAGES	PART NUMBER
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CyanoFluor™ Handheld HAB Indicator, Field Package	8700-000
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Includes carrying case, 2 each 10x10mm glass cuvettes, 60cc sampling syringe, 10 each 0.2 µm filter capsules, calibration check standard, data download cable, storage pouch and kim wipes.

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