



Blue-Green Algae Sensor

Brief Introduction:

Hydrolab provides the most accurate Blue-Green Algae sensor available on a multiprobe.

Features:

- Available in two forms, one for detecting phycocyanin (fresh water), and one for detecting phycoerythrin (marine water)
- Ultra-compact size designed specifically for integration into the Hydrolab DS5X, DS5, and MS5
- Available with solid Secondary Standards to provide a quick and simple method to verify the sensor's stability over time
- The Secondary Standard can be adjusted to correlate to a known Blue-Green Algae concentration
- Three auto-selected gain ranges provide a wide measurement range of 100 to 2,000,000 cells/mL for either phycocyanin or phycoerythrin



Benefits:

Real-time measurement:

- Identifies potential algal blooms before they become problematic, allowing time for corrective action
- Less expensive and more timely than cell counting or visual inspection
- Plus, like all other fluorometers available on a Hydrolab sonde:
 - Provides the most accurate measurement of phycocyanin or phycoerythrin because of electronic filtration of ambient light, efficient optical coupling and quality optical components
 - Incredibly fast response time through electronic filtration of ambient light
 - Excellent turbidity rejection due to small sample volume design and high quality optical filters
 - Cost-optimized for affordability and value

Optical Characteristics:

Light Source:	Light Emitting Diode
	Detector: Photodiode
Excitation Wavelength:	Phycocyanin 590 nm Phycoerythrin 525 nm
Emission Wavelength:	Phycocyanin 650 nm Phycoerythrin 570 nm

Specifications:

Minimum Detection Limit:	100 cells/mL
Dynamic Range:	Low sensitivity : 100-2,000,000 cells/mL Med. sensitivity: 100-200,000 cells/mL High sensitivity: 100-20,000 cells/mL
Accuracy:	+/- 3%
Resolution:	20 cells/mL

This sensor available on These sondes:

- Hydrolab DS5X
- Hydrolab DS5
- Hydrolab MS5

