

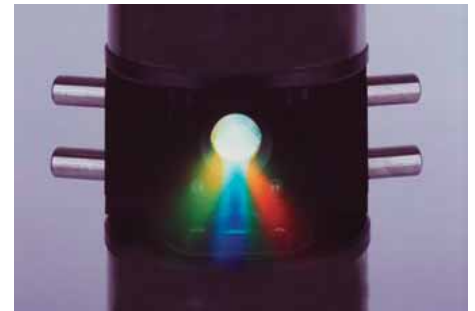


Total Chlorophyll with algal class differentiation

AlgSys : FP



BBE Fluoroprobe



Sample illumination via an LED array

Features:

- Total Chlorophyll determination
- Up to 5 algal class determinations
- Yellow substance determination & compensation
- Optional Automatic cleaning
- Internal rechargeable battery
- Internal data logger
- Integral pressure sensor for depth logging
- Optional water temperature sensor
- Optional transmission sensor
- Optional GSM modem
- Optional workstation adaptor for laboratory use

Benefits:

- Immediate real time data
- No special skills required
- No chemicals or reagents
- Minimal maintenance requirement
- Stored data files
- Algal depth profiling

Applications:

- Abstraction monitoring
- Lake & river monitoring
- Oceanological surveys
- Supervision of Aquaculture
- Environmental monitoring
- Control of bathing waters
- Research & development



Real time profiling



Work station adaptor



The bbe FluoroProbe is a highly sensitive instrument for chlorophyll analysis, giving total chlorophyll content and the distribution between four spectral algae classes (blue-green algae/cyanobacteria, green algae, diatoms/dinoflagellates/chrysophytae, cryptophytae) . The sensor also measures the “yellow substances” and compensates for fluorescence due to this source. It will operate down to 100m depth with real time data displayed via a PDA or data stored on internal memory for subsequent download and analysis . This enables the instrument to analyse the occurrence and distribution of algae on site without needing a laboratory. Optional adaptors are available to convert the unit into a “lab” instrument or a flow through device. A “Hydrowiper” is available for optics cleaning when deploying in situ for long periods.

Technical Data

Specifications

Measurands:	total chlorophyll [$\mu\text{g chl-a/l}$]
Chlorophyll	0 - 200 $\mu\text{g chl-a/l}$
Measurement procedure	spectral fluorometry
Resolution	0.05 $\mu\text{g chl-a/l}$
Transmission	0 - 100%
Water temperature	-2 - +40°C
Housing material	reinforced carbon fibre/V4A steel
Weight	4.5 kg
Dimensions	(H x D) 450 x 140 mm
Voltage	12 V
Battery capacity	3900 mAh
Operating time	10 h - 30 days
Memory capacity	2 million data sets
Interface	RS485/RS232 modem (optional)
Maximum diving depth	0 - 100 m, 0 - 300 m (extended range 1), 0 - 1000 m (extended range 2)
Options	Workstation 25 (cuvette device) transmission measurement, temperature measurement PDA with software 2, 10, 20, 30, 50, 70, 100 m cables Flow-Through Unit Hydro-Wiper

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