



## BBE FluoroProbe

### 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



Real time profiling



### The Components of FluoroProbe III

Connector with protective cap

Charging control LED

Carrying wire

Photomultiplier window

LED windows

Temperature sensor

Transmission window

FluoroProbe III "Metal Shell" (1000 m)



Work station adaptor



LED array

**Total Chlorophyll  
with  
Algal Class  
Differentiation**

### Applications:

- Abstraction monitoring
- Oceanological monitoring
- Lake and river monitoring
- Supervision of Aquaculture
- Environmental monitoring
- Control of bathing waters
- Research & Development

### Benefits:

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



The **bbe FluoroProbe** is a highly sensitive instrument for chlorophyll analysis, measuring

- total chlorophyl content and the distribution between four spectral algae classes
- blue-green algae/cyanobacteria,
- green algae,
- diatoms,
- cryptophytae,

The sensor also measures the “yellow substances” and compensates for fluorescence due to this source. It is designed for long term deployment and 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.

Analyser Performance	
Measurands:	Total chlorophyll [ g chl a/l]
Measuring range:	0 - 200g µg chl a/l
Measurement procedure:	Spectral fluorometry
Resolution:	0.05 µg chl-a/l
Transmission:	0 - 100%
Water temperature:	-2 - +40°C
Housing protection:	reinforced carbon fibre/V4A steel
Dimensions (H x D):	450 x 140 mm
Voltage:	12V
Battery capacity:	3900 mAh
Operating time:	10 h - 30 days
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