



Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

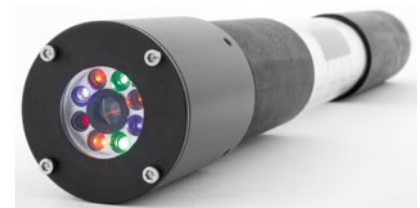
## BBE Algae Torch

### Features:

- Total Chlorophyll determination
- Blue –Green Algae determination
- Hand held or submerged operation
- Internal data logging
- Touch pad operation
- Immediate data display
- Internal rechargeable battery
- No sample preparation
- Optional sensors for depth & turbidity
- PC software included



Hand held operation



## Total Chlorophyll & Blue-Green Algae

### Benefits:

- Real time measurement
- Data logged automatically
- No special skills required
- No chemicals or reagents
- Minimal maintenance requirement
- Very rapid analysis

### Applications:

- Bathing water monitoring
- Abstraction monitoring
- Lake and river monitoring
- Fish farm monitoring
- Environmental monitoring
- Potable water process monitoring

### The Components of the AlgaeTorch



Rugged carrying case

**Contact us for more info:**

[Info@envitech.co.uk](mailto:Info@envitech.co.uk) Tel: 0044 2920 364252

[www.envitech.co.uk](http://www.envitech.co.uk)



**The bbe algaetorch** is a light-weight, outdoor instrument for the quantification of blue-green algae and total chlorophyll. The algae analysis includes the determination of the chlorophyll content, which replaces the laborious wet chemical approach. The measurement is based on the natural fluorescence of algae cells when irradiated with 3 different wavelengths of light. The resulting spectra are processed internally using optimised algorithms to give both total and blue green algae concentrations. Merely invert the sensor to switch it on, immerse in the liquid (no sample preparation is required) and the analysis is immediately performed in situ, needing only 15 seconds to produce results which may be read on the backlit display or downloaded later via the encapsulated USB socket.

Its simplicity and robust nature make it ideal for use by non skilled users, thereby reducing costs of field measurements where regular and multiple measurements are required to monitor large and dispersed water bodies, for leisure, potable or fishery use.

Optional depth sensors are available enabling profiling work down to 100m. Similarly an approximate turbidity sensor is incorporated to compensate the effects of turbid samples.

#### Technical Data

Type:	In situ multi wavelength fluorometer Wavelength range 340–860 nm
Optics:	3 LED light sources with photomultiplier detector Insensitive to external light–no light shield required
Measurands:	Total chlorophyll [ g chl a/l] Concentration of blue green algae [ g chl a/l]
Measuring range:	0- 200g chl a/l
Resolution:	0.2 g chl a/Weight: 1.3 kg
Housing protection:	IP68
Dimensions (L x D):	500 x 60 mm
Power supply:	230 V / 60 Hz or 110 V / 50 Hz charger – 12V 10W DC power to internal battery pack
Power input:	10 W
Sample temperature:	0 - 30° C Display: Backlit LCD 4 off touch sensitive pads, USB data interface Depth
Interface range:	Torch 10 – 10m Torch 100 – 100m Options: Depth sensor, Turbidity sensor, Telescopic Extension rods

#### Optional

Please indicate:

1. Depth range required
2. Whether a turbidity sensor is required
3. Whether extension rods are needed