



We **Understand** Water & Waste Water Monitoring

BBE Bentho Torch

Features:

- Green, Blue-Green & Diatom Chla determination
- Automatic substrate compensation
- Hand held operation
- Internal data logging
- · Touch pad operation
- Integrated instrument display
- Internal rechargeable battery
- No sample preparation
- · GPS sensor as standard
- · PC software included
- Cable free operation
- USB communication to PC/Laptop



BenthoTorch used in the AQUAREHAB project in Denmark & Belgium

Benthic Algae & Classes

Benefits:

- Simultaneous determination of green algae, blue-green and diatom
- No sampling or preparation
- Rapid, portable operation

Result display on the instrument with internal memory



Direct readout



Rugged carrying case



BenthoTorch measuring head

Applications:

- EU WFD ecological status assessment
- Restoration / rehabilitation projects
- Limnological work
- Research and education
- Environmental monitoring



Measurement of Benthic Algae on different substrates

Contact us for more info:

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Innovation in Environmental & Process Technology

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The **Benthotorch** measures benthic algae in real time and in-situ by utilising the fluorometric characteristics of the different algal pigments in the intact cell, hence requiring no sample preparation. The amount of red fluorescence arising from excitation at different wavelengths gives a quantitative estimate of the algal density and its classification. The Benthotorch is precalibrated for the most prominent algal classes in the field. The torch is activated simply by inverting it and back again. A clearly presented menu enables one-step measurement by utilising the four touch sensitive keys by the display. After measurement initiation a count down timer is displayed and when finished, after ~ 15 seconds, a vibration alert is produced.

Its speed and simplicity of operation together with its robust engineering and on board data logging make it an ideal tool for satisfying the requirements of the water framework directive. The WDF states that the ecological status of water bodies should be regularly assessed. Since primary producers, which include Benthic algae, are fundamental to the water body condition it has effectively become obligatory to study the development and abundance of these organisms. Conventional methods for assessing Benthic algae cannot distinguish the different classes and are extremely time consuming and expensive to perform.

Technical Data	
Measurands	Green algae: [µg chl-a/cm ²]
	Blue-green algae: [µg chl-a/cm ²
	Diatoms: [μg chl-a/cm ²]
Measuring range:	0 - 10 μg chl-a/cm ²
Resolution:	0.2 μg chl-a/cm ²
Weight	1.3 kg
Size (H x Ø)	500 x 60 mm
Power supply:	230 V / 60 Hz or 110 V / 50 Hz charger
Sample temperature:	500 x 60 mm
Power input:	110/230 V - 50/60 Hz - 12V DC
Sample temperature:	0 - 30° C
Protection	IP68
Depth range	10m
Interface	USB
Software	bbe data evaluation software for Windows
Memory capacity	1000 datasets

Optional	
BenthoTorch for measurement of benthic algae	BG36700-V
Telescopic rod for difficult access (0.95 - 2.8 m)	BG36030-V

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