

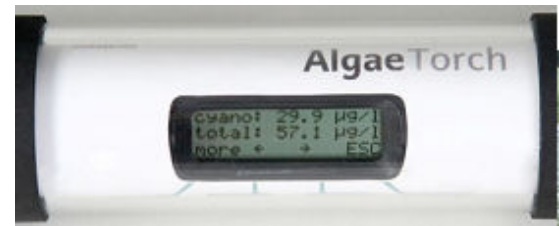


Total Chlorophyll & Blue-Green Algae

AlgSys: Torch



Hand held operation



Direct read out



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

Benefits:

- Real time measurement
- Data logged automatically – no need for paper & pencil
- No special skills required
- No chemicals or reagents
- Minimal maintenance requirement
- Very rapid analysis

Applications:

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



Extension rod for difficult access points



Rugged carrying case



Bathing water monitoring



AlgSys-Torch 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
Optics:	3 LED light sources with photomultiplier detector
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/l
Housing protection:	IP68
Size (L x D):	500 x 60 mm
Power supply:	230 V / 60 Hz or 110 V / 50 Hz charger – 12V 10W DC power to unit
Power input:	10 W
Sample temperature:	0-30° C
Display:	Backlit LCD
Interface:	4 off touch sensitive pads, USB data interface
Depth Range:	Depth Torch 10 – 10m Torch 100 – 100m
Options:	Depth sensor Turbidity sensor Telescopic Extension rods

Ordering Information

Please indicate:

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

Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU
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