

# UniLux

## Algae Sensor



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

Low cost, miniaturised, algae sensor capable of monitoring Chlorophyll at very low concentrations



### ★ Features

- Highly sensitive fluorescence probe
- Real-time results of Chlorophyll *a* in µg/L
- Available with CTG data acquisition software
- Multiple data output options
- Compatible with the CTG Hawk and Watchkeeper logging devices
- Biofouling and ambient light rejection tools available



## What can the UniLux do for you?



### Background

The **UniLux** is low cost, miniaturised, algae sensor capable of monitoring Chlorophyll fluorescence at very low concentrations. **UniLux** is designed to indicate small changes in algae biomass within a chosen environment.

There are four configurations available which are typically used in the monitoring of algae:

- UniLux Chlorophyll *a*
- UniLux Phycocyanin
- UniLux Phycoerythrin
- UniLux Turbidity

**UniLux** can be combined with the **CTG Hawk** handheld display and logging unit to form the portable **ALGAE-Wader system**. It can also be combined with the **Watchkeeper** wall mounted display and logging unit to form the permanently installed **ALGAE-Station system**.

**UniLux** is suitable for a number of different applications including monitoring within water treatment plants and for **integration within marine CTDs, AUVs and towed vehicles**.



### Specification

#### Performance

Parameters	Dynamic range*	Limit of detection
Chlorophyll <i>a</i>	0 to 100 µg/L	<0.01 µg/L
Phycoerythrin (Cyanobacteria)	0 to 100 µg/L	<0.02 µg/L
Phycocyanin (Cyanobacteria)	0 to 100 µg/L	<0.01 µg/L
Turbidity	0 to 100 FTU	<0.02 FTU

\* Configurable up to 500 µg/L

#### Mechanical

Size	Ø 26.5mm x 105mm (140mm including connector)
Weight in air	100g
Pressure housing	Acetal C
Depth rating	600 metres
Connector	MCBH-6-MP-SS

#### Electrical

Input voltage	11 to 25Vdc
Data output	Digital RS232 and analogue 0 to 5Vdc (or RS422, SDI-12 and 4-20mA options)
Power requirements	<1Watt @ 12 volt



Contact us today to see how we can help you



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