

# TriLux

## Multi-parameter algae sensor



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

Low cost, miniaturised, algae sensor capable of monitoring three different parameters in a single probe



### ★ Features

- Highly sensitive fluorescence probe
- Real-time results of key algae parameters in ug/L
- Available with CTG data acquisition supplied software
- Multiple data output options
- Compatible with the CTG Hawk and Watchkeeper logging devices
- Biofouling and ambient light rejection tools available

## What can the TriLux do for you?



### Background

The **TriLux** is a low cost, miniaturised, algae sensor capable of monitoring three different parameters in a single probe. Depending on your local environment, you may like to choose from one of the following **TriLux** specifications. In general we suggest the following:

- TriLux Chlorophyll *a*, Phycocyanin and Turbidity for a freshwater deployment
- TriLux Chlorophyll *a*, Phycoerythrin and Turbidity for a marine deployment
- TriLux Chlorophyll *a*, Phycoerythrin and Phycocyanin for a coastal deployment

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

**TriLux** 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

Dynamic range	Calibrated for 0-100µg/L (Chlorophyll <i>a</i> in acetone)
Limit of detection	Typically 0.1% of full range
Combinations	Chlorophyll <i>a</i> , Phycoerythrin, Phycocyanin  Chlorophyll <i>a</i> , Turbidity, Phycoerythrin  Chlorophyll <i>a</i> , Turbidity, Phycocyanin

#### 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



**Chelsea Technologies Group Ltd**

55 Central Avenue  
West Molesey  
Surrey,  
KT8 2QZ,  
United Kingdom

Tel: +44 (0)20 8481 9000  
Fax: +44 (0)20 8941 9319  
sales@chelsea.co.uk  
www.chelsea.co.uk