

UniLux

Miniature single-parameter fluorometer

A compact, single-wavelength chlorophyll fluorometer configurable for a range of parameters. →



The **UniLux** is a highly sensitive single-parameter fluorometer that provides a cost-effective solution for the widespread monitoring of algae, cyanobacteria and turbidity.

Its compact size and wide variety of possible data outputs makes it ideal for integrating into real-time monitoring systems for a range of submersible and in-line applications.

Key features

- High sensitivity, low limit of detection
- Extendable dynamic range
- Choose from 1 of 4 configurations
- Choice of data outputs for easy integration
- 2-year calibration interval
- Solid standard available for regular calibration checks
- Low power requirement <1 W

Applications

- Simple to integrate and deploy
- Environmental monitoring & ocean observations
- Industrial process monitoring
- Monitoring within water treatment plants
- Dye tracing studies
- Aquaculture site monitoring
- Ground truthing of satellite remote sensing

The **UniLux** operates using excitation wavelengths calibrated to target different algal pigment groups. It has been expertly designed to robustly reject ambient light and turbidity.

The UniLux can be configured from the factory to monitor a range of parameters. The user can select Chlorophyll-*a*, Phycocyanin, Phycocerythrin or turbidity versions.

It's compact design and low power consumption makes it ideal for multi-sensor deployments.

A ruggedised Windows tablet pre-loaded with our Sensor Monitor software is available, offering a reliable solution for attended monitoring and spot sampling in the field. The software allows you to read, log and visualise data in real-time with its intuitive user interface.

UniLux

UniLux Performance	Chlorophyll-a	Phycocyanin	Phycoerythrin	Turbidity
Dynamic range (configurable up to 750 µg/l or 1000 FTU)	0 to 100 µg/l	0 to 100 µg/l	0 to 100 µg/l	0 to 100 FTU
Limit of detection	< 0.01 µg/l	< 0.01 µg/l	< 0.02 µg/l	< 0.02 FTU
Dimensions	Ø 26.5 mm x 140 mm (including connector)			
Weight in air	190 g			
Pressure housing	Titanium			
Depth Rating	2000 metres			
Connector	MCBH-6-MP			
Input voltage	11 to 25 V			
Data output	Digital RS232 and analogue 0 to 5 Vdc (or RS422, SDI-12 and 4-20 mA options)			
Power requirements	<1 Watt @ 12 V			



Chelsea Technologies
 Meridian House
 Blackbushe Business Park
 Yateley, Hampshire
 GU46 6GF
 United Kingdom
 T +44 1252 872288 E sales@forcys.com W chelsea.co.uk