

UviLux

Miniature fluorometer

A compact, multi-wavelength chlorophyll fluorometer suitable for continuous real-time monitoring. →



The **UviLux** is a highly sensitive fluorometer with excellent turbidity and ambient light rejection. UviLux can be configured from the factory to measure one from a range up to seven different parameters.

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
- Choose from 1 of 7 parameters
- Choice of data outputs for easy integration
- 2-year calibration interval
- Real-time output with data quality flags
- Standardised and traceable QSU calibration

Applications

- CSO and bathing water monitoring
- Point source pollution tracking
- Drinking water treatment process optimisation
- Industrial effluent monitoring
- Oil spill monitoring
- Carbon cycle studies

The **UviLux** is configured at the factory to monitor parameters of interest and calibrated using Quinine Sulfate Units (QSU). This standardised and traceable calibration allows results from different sensors and studies to be easily compared.

Available parameters are Biological Oxygen Demand (BOD), Crude Oil, Fluorescent Dissolved Organic Matter (FDOM), Optical Brighteners (OBA), Polycyclic Aromatic Hydrocarbons (PAH), Refined Fuels, and Tryptophan-like-Fluorescence (TLF).

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.

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UviLux Performance	BOD	Crude Oil (Perylene)	FDOM (PTSA)	OBA (PTSA)	PAH (Carbazole)	Fuels (BTEX)	TLF (Tryptophan)
Dynamic range	0 to 50 mg/l	0 to 600 QSU 0 to 50 ppb	0 to 600 QSU 0 to 900 ppb	0 to 1,200 QSU 0 to 2,400 ppb	0 to 600 QSU 0 to 80 ppb	0 to 600 QSU 0 to 50k ppb	0 to 600 QSU 0 to 900 ppb
Limit of detection	0.001 mg/l	0.03 SU 0.003 ppb	0.01 QSU 0.02 ppb	0.08 QSU 0.19 ppb	0.03 SU 0.005 ppb	0.06 QSU 3 ppb	0.01 QSU 0.02 ppb
Dimensions	Ø 70 mm x 149 mm (including connector)						
Weight in air	800 / 150 g						
Pressure housing	Acetal C						
Depth rating	1000 metres						
Connector	MCBH-6-MP						
Input voltage	9 to 36 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						



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