

# UniLux

## Dye Tracing Sensor



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

Low cost, miniature dye tracing sensor configured for monitoring either Rhodamine or Fluorescein with high sensitivity



### ★ Features

- Highly sensitive fluorescence probe
- Real-time output of tracer concentration in  $\mu\text{g/L}$
- Supplied with CTG's data acquisition software
- Compatible with the CTG Hawk and Watchkeeper logging and data display devices
- Anti-biofouling and ambient light rejection tools available

## What can the UniLux do for you?



### Background

UniLux is a low cost, miniature fluorometer for *in situ* operation. The sensor includes an array of LEDs to provide intense fluorescence excitation, which enables highly sensitive dye detection. The use of fluorescence quality bandpass filters provides target selectivity with excellent turbidity-rejection.

There are **two** configurations available which are typically used for dye tracing operations:

- UniLux Rhodamine
- UniLux Fluorescein

Rhodamine or Fluorescein are often incorporated as tracers in a range of chemical products, making UniLux a suitable sensor for tracing these formulations. If you are unsure whether UniLux can detect your products, please contact CTG for confirmation. UniLux can be combined with the CTG Hawk handheld display and logging unit to form the portable DYE-Wader system. It can also be combined with the Watchkeeper wall mounted display and logging unit to form the permanently installed DYE-Station system.

UniLux is suitable for a number of different applications including monitoring within waste water treatment plants during commissioning operations, discharge monitoring into rivers and estuaries, leak detection, cross-contamination and borehole connectivity.



In view of our continual developments, the designs and specifications of our products may vary from those described.

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### Specification

#### Performance

Parameters	Dynamic range*	Limit of detection
Rhodamine	0 to 100 µg/L	<0.02 µg/L
Fluorescein	0 to 100 µg/L	<0.005 µg/L

\* 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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