

# AquaTracka III Fluorometer



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The industry standard AquaTracka III enables real-time, highly sensitive, *in situ* detection of Chlorophyll *a*, tracer dyes or turbidity



## Applications

- Chlorophyll *a* and other fluorophore detection
- Rhodamine and fluorescein dye tracing
- Particle concentration by light scattering
- Environmental and water quality monitoring
- Bio-geo chemical oceanography
- Pipeline / control line leak detection



## Features

- High sensitivity
- Long term calibration stability
- High ambient light rejection
- Wide range of detection
- Robust titanium pressure housing
- Analogue or digital outputs available
- 6000 metre depth rating

## What can the AquaTracka III Fluorometer do for you?

### Introduction

CTG's **AquaTracka III** provides highly sensitive data on fluorescence parameters including Chlorophyll *a*, Rhodamine, Fluorescein or Turbidity, configured by factory-set fluorometer optics.

#### How does it work?

CTG's **AquaTracka III** detects fluorescence. When dissolved compounds (that are of a fluorescent nature) absorb light they re-emit a fraction of this energy as fluorescence at longer wavelengths. Fluorescence intensity is directly proportional to concentration. The technique is widely recognised as one of the most sensitive detection methods available.

A low power rugged pulsed xenon light source is used in conjunction with a virtually indestructible photodiode detector and a reference channel monitoring the intensity of each flash, providing excellent calibration stability over long time intervals.

#### Configurations

The **AquaTracka III** is available to output either an analogue logarithmic signal (4 decade) or alternatively, a digital signal which can either be RS232 or RS422. This flexibility of data output allows ease of integration to a variety of platforms including host CTD profilers, ROVs and towed vehicle systems. A flow-through manifold is available to configure the **AquaTracka III** for in-line monitoring.



### Specification

Parameter	Chlorophyll <i>a</i>	Rhodamine	Fluorescein	Turbidity
Sensitivity	0.01 µg/l	0.01 µg/l	0.01 µg/l	0.01 FTU
Calibrated range	0.01-100µg/l	0.01-100µg/l	0.01-100µg/l	0.01-100 FTU
Accuracy	± 0.02 µg/l or 3% whichever the greater			

Interfaces	Digital	Analogue
Standard	RS232 or RS422	0 – 4V dc 4 decade log

Input voltage	9 – 18V
Power requirement	3 watts nominal
Operating temperature	-2°C to + 32°C
Storage temperature	-40°C to + 70 °C
Depth rating	6000m
Size	Ø 88mm x 405mm
Housing material	Titanium
Weight	5.5kg in air / 3.5kg in water
Connector	Analogue: BH-4-MP Digital: MCBH-6-MP Options available on request

Options: Flow-through manifold, deck units, calibration equipment, software for data acquisition, processing and display

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