UV AquaTracka

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The industry standard UV AquaTracka enables real-time, highly sensitive, *in situ* detection of crude or refined hydrocarbons (PAH) or CDOM

Applications

- *In situ* crude & refined hydrocarbon detection / monitoring
- Water mass indicator studies (CDOM)
- Pollution monitoring
- 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

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Product Information

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What can the UV AquaTracka Fluorometer do for you?

Introduction

CTG's UV AquaTracka provides highly sensitive data on UV fluorescence parameters including hydrocarbon (crude and refined) and CDOM configured by factory-set fluorometer optics.

How does it work?

CTG's UV AquaTracka detects UV fluorescence. When dissolved compounds (that are of a fluorescent nature) absorb UV 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 photomultiplier detector and a reference channel monitoring the intensity of each flash, providing excellent calibration stability over long time intervals.

Configurations

The UV AquaTracka 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. An on-board temperature sensor is offered as an option for the 600 metre rated UV AquaTracka which allows for correction of the fluorescence signal quantum yield variation with temperature.

Specification

Parameter	Hydrocarbon (refined)	Hydrocarbon (crude)	CDOM (Gelbstoffe)
Sensitivity	0.001 µg/l Carbazole	0.001 µg/l Perylene	0.001 µg/l Perylene
Calibrated range	0.001-10µg/l Carbazole	0.001-10µg/l Perylene	0.001-10µg/l Perylene

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

Input voltage	10.5 – 72V
Power requirement	< 3 watts nominal
Operating temperature	-2°C to + 40°C
Storage temperature	-40°C to + 70°C
Depth rating	600m or 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

Temperature sensor – Optional (600m rated version only)	
Range	-2°C to +32°C
Accuracy	0.01°C
Resolution	10°C / V Analogue

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

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