

C3 Submersible Fluorometer



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The C3 Submersible Fluorometer can be configured with one, two or three optical sensors ranging from the ultraviolet to the infrared spectrum. Internal memory storage capacity combined with an external submersible lithium ion battery allows the C3 to run during extended or short-term deployments. Each C3 comes with a factory-installed temperature sensor. Optional factory-installed depth sensors and mechanical wipers are also available. The durable delrin housing is highly resistant to harsh environments. C-Soft Windows™ based software allows for intuitive calibration, datalogging set-up and file management capabilities as well as digital or analog data integration.

Customized Optical Sensors

Choose up to three optical sensors to be factory installed for a variety of applications.

Available Optical Sensors

- Turbidity
- Chlorophyll *a in vivo*
- Blue Green Algae - Phycocyanin
- Blue Green Algae - Phycoerythrin
- Fluorescein Dye
- Rhodamine Dye
- CDOM
- Optical Brighteners for Wastewater Treatment
- Crude Oil
- Refined Fuels **New**

Contact Us for Custom Optics

Highlights of the C3

- One, Two or Three Optical Sensors
- Temperature Sensor Included
- Optional Depth Sensor Available
- Optional Mechanical Wiper Available
- All Plastic Housing
- Robust Memory – Over 480,000 Data Points!
- Easy to Use Software with Data Management Capabilities
- Optional C-ray Deployment Body Enables Horizontal Towing



Digital or Analog integration with a CTD profiler or third party platform



Extended Deployments in the Self-Contained Mode with Submersible Battery



Secondary Solid Standard used to check signal stability or correlate to a primary standard



Submersible Fluorometer



Application	Minimum Detection Limit	Dynamic Range	C3 Physical Specifications	
Chlorophyll <i>a</i> *	0.025 µg/L	0-500 µg/L	Weight in Air	1.64 kg; 3.6 lbs
CDOM	0.4 ppb QS**	0-2500 ppb QS**	Length	23 cm; 9.1 in
Crude Oil	0.2 ppb QS**	0-1500 ppb QS**	Diameter	10 cm; 3.9 in
Cyanobacteria	150 cells/mL	0-150,000 cells/mL	Material	Delrin Plastic
Optical Brighteners	1 ppb QS**	0-15,000 ppb QS**	Temperature	-2 to 50 degrees C.
Fluorescein Dye	0.01 ppb	0-500 ppb	Depth	0 to 600 meters
Rhodamine Dye	0.01 ppb	0-1000 ppb	C3 Electrical Specifications	
Turbidity	0.05 NTU	0-3000 NTU	External Power	8 to 30 VDC
Refined Fuels	2 ppb NS***	0-10,000 ppb NS***	Output	Digital Signal
BTEX	0.1 ppm	>2500 ppm	Interface	RS232 Interface
			Maximum Sample Rate	1 Second
			Maximum Power Requirements	1 Watt

* Chlorophyll specifications determined with Rhodomonas SP culture
** Quinine Sulfate
*** 1.5 Naphthalene Disulfonic Disodium Salt

Ordering Information

INSTRUMENT	PART NUMBER	AVAILABLE FACTORY-INSTALLED OPTICS	PART NUMBER
C3 Submersible Fluorometer	2300-000	Turbidity	2300-240
C3 ACCESSORIES	PART NUMBER	Chlorophyll <i>a in vivo</i>	2300-200
Mechanical Wiper	2300-450	Blue Green Algae - Phycocyanin	2300-231
Pressure Sensor	2300-360	Blue Green Algae - Phycoerythrin	2300-230
Analog Output Adapter New	2300-480	Fluorescein Dye	2300-220
Submersible Battery Pack	2200-601	Rhodamine Dye	2300-210
Battery Pack Bracket	2300-603	CDOM	2300-251
Flow Cap	2300-700	Optical Brighteners for Wastewater Treatment	2300-252
Shade Cap	2300-500	Crude Oil	2300-253
Shade Cap Weight	2300-510	Refined Fuels New	2300-255
C-ray Shade Cap	2300-502	<i>Contact Us for Custom Optics</i>	
C-ray Towed Deployment Body	2300-750	OIL SPILL RESPONSE FOR SMART PROTOCOL	PART NUMBER
Solid Secondary Standard*	2300-900	SMART Firmware	2200-201
24" Pigtail Interface Cable w/ Locking Sleeve	2200-170	C-ray Shade Cap	2300-502
Integration Cable	2200-160	C-ray Deployment Body	2300-750
Boosters (Set of 2)**	2200-900		
10 Meter Extender Cable	105-2595		
25 Meter Extender Cable**	105-2596		
50 Meter Extender Cable**	105-2597		

*Only available for visible wavelengths

**Boosters are required for cable lengths greater than 10 meters

Contact Us

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