

C3 Submersible Fluorometer



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The C3 Submersible Fluorometer can be configured with one, two or three optical sensors ranging from the deep 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
- PTSA Dye **New**
- CDOM
- Optical Brighteners for Wastewater Treatment
- Crude Oil
- Refined Fuels

Contact Us for Custom Optics

Highlights of the C3

- One, Two or Three Optical Sensors
- Temperature Sensor Included
- Optional Depth Sensor Available
- Optional 3-Brush 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

Reliable Instruments for an Unreliable World



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 PTSA***	0-2700 ppb PTSA***	Diameter	10 cm; 3.9 in
Cyanobacteria	150 cells/mL	0-150,000 cells/mL	Material	Delrin Plastic
Optical Brighteners	0.6 ppb PTSA***	0-15,000 ppb PTSA***	Temperature	-2 to 50 degrees C.
Fluorescein Dye	0.01 ppb	0-500 ppb	Depth	0 to 600 meters
PTSA Dye	0.01 ppb	0-650 ppb	C3 Electrical Specifications	
Rhodamine Dye	0.01 ppb	0-1000 ppb	External Power	8 to 30 VDC
Turbidity	0.05 NTU	0-3000 NTU	Output	Digital Signal
Refined Fuels	2 ppb NS****	0-10,000 ppb NS****	Interface	RS232 Interface
BTEX	0.1 ppm	>2500 ppm	Maximum Sample Rate	1 Second
			Maximum Power Requirements	1 Watt

* Chlorophyll specifications determined with Rhodomonas SP culture
 ** Quinine Sulfate
 *** 1,3, 6, 8 - Pyrenetetrasulfonic Acid Tetrasodium Salt
 **** 1.5 Naphthalene Disulfonic Disodium Salt

Ordering Information

INSTRUMENT	PART NUMBER
C3 Submersible Fluorometer	2300-000

C3 ACCESSORIES	PART NUMBER
3-Brush Mechanical Wiper	2300-450
Pressure Sensor	2300-360
Analog Output Adapter	2300-480
Submersible Battery Pack	2200-601
Battery Pack Bracket	2300-603
Flow Cap	2300-700
Shade Cap	2300-500
Shade Cap Weight	2300-510
C-ray Shade Cap	2300-502
C-ray Towed Deployment Body	2300-750
Solid Secondary Standard*	2300-900
24" Pigtail Interface Cable w/ Locking Sleeve	2200-170
Integration Cable	2200-160
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

Toll-Free : 1.877.316.8049 Email : sales@turnerdesigns.com
 Phone : 408.749.0994 Web : www.turnerdesigns.com
 Fax : 408.749.0998

AVAILABLE FACTORY-INSTALLED OPTICS	PART NUMBER
Turbidity	2300-240
Chlorophyll <i>a in vivo</i>	2300-200
Blue Green Algae - Phycocyanin	2300-231
Blue Green Algae - Phycoerythrin	2300-230
Fluorescein Dye	2300-220
Rhodamine Dye	2300-210
PTSA Dye	2300-250
CDOM	2300-251
Optical Brighteners for Wastewater Treatment	2300-252
Crude Oil	2300-253
Refined Fuels	2300-255
<i>Contact Us for Custom Optics</i>	

OIL SPILL RESPONSE FOR SMART PROTOCOL	PART NUMBER
SMART Firmware	2200-201
C-ray Shade Cap	2300-502
C-ray Deployment Body	2300-750