

C3™ and C6™

Submersible Fluorometers



These Submersible Fluorometers can be configured with up to three or six optical sensors ranging from deep ultraviolet to the infrared spectrum. Internal memory storage capacity combined with an external submersible lithium ion battery allow the C3 or C6P to run during extended or short-term deployments. Each unit comes with a factory-installed temperature sensor. Factory-installed depth sensors and copper-armed mechanical wipers are also available. The durable delrin housing is highly resistant to harsh environments. Antifouling copper tape pieces are included for placement on the C3 optical head to reduce bio-fouling on and around the sensors. An antifouling copper plate is available as an option for both the C3 and C6P for longer deployments. The Integrator Firmware option is recommended when the C3 or C6P is used as part of a continuous sampling system that requires 24/7 streaming data collection. C-Soft Windows™ based software allows for intuitive calibration, datalogging set-up and file management capabilities as well as data integration.

Customized Optical Sensors

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

PRODUCT HIGHLIGHTS

- 1, 2, 3, 4, 5 or 6 Optical Sensors
- Temperature Sensor Included
- Optional Depth Sensor
- Optional 3-Brush Mechanical Wiper with Copper Arms
- All Plastic Housing
- Robust Memory – Over 60,000 Data Lines!
- Easy to Use Software with Data Management Capabilities
- Optional C-ray Deployment Body Enables Horizontal Towing of the C3
- Digital integration with a CTD profiler or third party platform (Analog adapter available for C3)
- Extended Deployments in the Self-Contained Mode with Submersible Battery

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PERFORMANCE SPECIFICATIONS

Application	Minimum Detection Limit	Linear Range
CDOM/FDOM	0.1 ppb*	0-1,500 ppb*
	0.5 ppb**	0-3,000 ppb**
Chlorophyll <i>in vivo</i> (blue excitation)	0.03 µg/L	0-500 µg/L
Chlorophyll <i>in vivo</i> (red excitation)	0.3 µg/L	0-500 µg/L
Fluorescein Dye	0.01 ppb	0-500 ppb
Oil - Crude	0.2 ppb**	0-1,500 ppb**
Oil - Fine	0.4 ppm***	0-20 ppm***
Optical Brighteners	0.6 ppb**	0-2,500 ppb**
Phycocyanin (freshwater cyanobacteria)	2 ppb ^{PC}	0-4,500 ppb ^{PC}
Phycoerythrin (marine cyanobacteria)	0.1 ppb ^{PE}	0-750 ppb ^{PE}
PTSA Dye	0.1 ppb**	0-650 ppb**
Rhodamine Dye	0.01 ppb	0-1,000 ppb
Tryptophan	3 ppb	0-5,000 ppb
Turbidity	0.05 NTU	0-1,500 NTU

* Quinine Sulfate

** PTSA (1,3, 6, 8 - Pyrenetetrasulfonic Acid Tetrasodium Salt)

*** BTEX (Benzene, Toluene, Ethylbenzene, Xylenes)

PC Phycocyanin pigment from Prozyme diluted in Deionized water

PE Phycoerythrin pigment from Prozyme diluted in Deionized water

PHYSICAL SPECIFICATIONS

Weight in Air:

1.64 kg; 3.6 lbs (C3)

2.54 kg; 5.6 lbs (C6P)

Length:

23 cm; 9.1 in (C3)

27.43 cm; 10.8 in (C6P)

Diameter:

10 cm; 3.9 in (C3)

13.84 cm; 5.25in (C6P)

Material: Delrin Plastic

Temperature: -2 to 50 degrees C.

Depth: 0 to 600 meters

ELECTRICAL SPECIFICATIONS

Output:

Digital (ASCII)

Analog (0 - 5 volt)- optional C3 only

Interface: RS232 Interface

Minimum Sample Interval: 1 Second

Minimum Power Supply: 8 - 30 volts; 5 watts

Maximum Current Draw @ 12 volts

- operational: 200 mA (C3) / 300 mA (C6P)

- sleep mode: 3 mA

WHO WE ARE

Since 1972 Turner Designs has provided over 75,000 sensitive, reliable and easy-to-use fluorometers for environmental and industrial uses. We specialize in sensitive detection of materials with fluorescence properties. With distributors around the world, we provide free technical support for the life of our instruments.

