

# C3 Submersible Fluorometer

**TURNER**  
DESIGNS



## C3 Submersible Fluorometer

C3 水下螢光計可以搭配一個，兩個或三個光學偵測器範圍從深紫外光到紅外光譜，強大的記憶容量相結合外部沉水式鋰電池 讓 C3 可以在長期或短程彈性監測記錄，每個 C3 都經原廠配置了一個溫度傳感器(選配)

出廠時安裝的深度傳感器和機械式雨刷提升數據的信賴度  
一體成型的聚甲醛樹脂外殼在極端惡劣環境下特別抗污耐寒 持久耐用  
防污銅箔膠環安裝在 C3 光學頭，以減少周圍生物污染傳感器

C-Soft 搭配 Windows™ 的軟體介面件可以直接校正，數據採樣設定和文件管理功能，以及數位或類比模擬輸出

## Customized Optical Sensors 選配光學傳感器

選擇最多三組光學傳感器原廠安裝 適用於各種行業應用

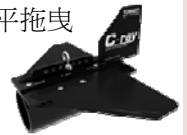
### Available Optical Sensors

- Blue Green Algae 藍綠藻
  - Phycoerythrin (marine) 藻紅素 (海洋)
  - Phycocyanin (freshwater) 藻藍素 (淡水)
- CDOM/FDOM 有色溶解有機物
- Chlorophyll *in vivo* 葉綠素 原水
  - Blue excitation 藍激光
  - Red excitation 紅激光
- Fluorescent Dye Tracing 螢光染料追蹤
  - Fluorescein 螢光素
  - PTSA 甲苯磺酸
  - Rhodamine 羅丹明
- Hydrocarbons 碳氫化合物
  - Crude Oil 原油
  - Refined Fuels 精煉燃料
- Turbidity 濁度
- Wastewater Monitoring 廢水監測
  - Optical Brighteners 螢光增白劑
  - Tryptophan 色氨酸

Contact us for Custom Optics 客製光學傳感器聯繫我們

## C3 亮點

- 1, 2 或 3 組 光學偵測器
- 包含 溫度偵測器
- 選配 深度偵測器
- 選配 機械式清潔刷
- 全機組塑料外殼
- 容量強大的記憶體 - 超過 64000 數據
- 使用簡單的數據管理軟體
- 選配 C-ray 本體可以水平拖曳



數位或類比模擬輸出配合 CTD 分析器或第三方平台



使用強力沉水充電電池



減少生物污損防污銅墊圈



固態二次標準片用於檢查信號穩定性與原始樣品關聯性

Reliable Instruments for an Unreliable World



# Submersible Fluorometer



應用	最小檢測極限	範圍
CDOM/FDOM	0.15 ppb** 0.5 ppb***	0-1250 ppb** 0-5000 ppb***
Chlorophyll <i>in vivo</i>		
Blue excitation	0.025 µg/L	0-500 µg/L
Red excitation	0.5 µg/L	>500 µg/L
Fluorescein Dye	0.01 ppb	0-500 ppb
Oil - Crude	0.2 ppb***	0-2700 ppb***
Oil - Fine	10 ppb* 10 ppm****	>10,000 ppb* >100ppm****
Optical Brighteners	0.6 ppb***	0-15,000 ppb***
Phycocyanin	2 ppb <sup>PC</sup>	0-40,000 ppb <sup>PC</sup>
Phycocerythrin	0.15 ppb <sup>PE</sup>	0-750 ppb <sup>PE</sup>
PTSA Dye	0.1 ppb***	0-650 ppb***
Rhodamine Dye	0.01 ppb	0-1000 ppb
Tryptophan	3 ppb	>20,000 ppb
Turbidity	0.05 NTU	0-3000 NTU

\* 1,5 Naphthalene Disulfonic Disodium Salt  
\*\* Quinine Sulfate  
\*\*\* PTSA (1,3, 6, 8 - Pyrenetetrasulfonic Acid Tetrasodium Salt)  
\*\*\*\* BTEX (Benzene, Toluene, Ethylbenzene, Xylenes)  
<sup>PC</sup> Phycocyanin pigment from Prozyme diluted in Deionized water  
<sup>PE</sup> Phycocerythrin pigment from Prozyme diluted in Deionized water

C3 本體規格	
Weight in Air	1.64 kg; 3.6 lbs
Length	23 cm; 9.1 in
Diameter	10 cm; 3.9 in
Material	Delrin Plastic
Temperature	-2 to 50 degrees C.
Depth	0 to 600 meters

C3 電性規格	
Output	Digital (ASCII); Analog (0 - 5 volt)- optional
Interface	RS232 Interface
Minimum Sample Interval	1 Second
Minimum Power Supply	8 - 30 volts; 5 watts
Maximum Current Draw @ 12 volts	
- operational	200 mA
- sleep mode	3 mA

## 訂購資訊

儀器主機	PART NUMBER
C3 Submersible Fluorometer	2300-000
C3 ACCESSORIES	
	PART NUMBER
3-Brush Mechanical Wiper	2300-450
Pressure Sensor	2300-360
Antifouling Copper Tape (15)	2300-506
Analog Output Adapter	2300-480
Submersible Battery Pack	2200-601
Battery Pack Bracket	2300-603
Flow Cap	2300-700
Shade Cap (Recommended for most deployments)	2300-500
Shade Cap Weight	2300-510
C-ray Shade Cap	2300-502
C-ray Towed Deployment Body	2300-750
Solid Secondary Standard	2300-901
UV Solid Secondary Standard	2300-902
0.6 Meter Pigtail Interface Cable w/ Locking Sleeve	2200-170
Communication and Integration Cable	2300-115
Boosters (Set of 2)*	2200-900
10 Meter Extender Cable	105-2595
25 Meter Extender Cable*	105-2596
50 Meter Extender Cable*	105-2597

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

提供原廠安裝的光學傳感器	PART NUMBER
Blue Green Algae - Phycocerythrin	2300-230
Blue Green Algae - Phycocyanin	2300-231
CDOM/FDOM	2300-251
Chlorophyll <i>in vivo</i> (Blue excitation)	2300-200
Chlorophyll <i>in vivo</i> (Red excitation)	2300-203
Crude Oil	2300-253
Fluorescein Dye	2300-220
Optical Brighteners	2300-252
PTSA Dye	2300-250
Refined Fuels	2300-255
Rhodamine Dye	2300-210
Tryptophan	2300-256
Turbidity	2300-240

Contact us for Custom Optics

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