

C-FLUOR™

Submersible Probes

C-FLUOR are sensitive, extremely low power single wavelength *in situ* fluorescence and turbidity probes available in several optical configurations spanning a broad range of applications. Factory-calibrated, each C-FLUOR ships with a calibration certificate used to convert the output signal to a specific concentration estimate. The Titanium construction allows for a depth rating of 2,000 meters as well as superior resistance to corrosion. Analog C-FLUOR Probes are pin-compatible with Cyclops Sensors so they are easily integrated into many of the same third-party systems that accept 0-5V signal. Digital C-FLUOR Probes can be integrated with dataloggers that accept ASCII data strings.



Configure Analog Probes with DataBank Handheld Datalogger for field sampling

Analog Probes easily integrate with Submersible Loggers for *in situ* sampling



Cyclops Logger sold by PME



Trimeter sold by Eureka Water Probes

CONTACT US

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PRODUCT HIGHLIGHTS

- Low power consumption
 - ≤12mA @ 12V (Analog Output)
 - ≤22mA @ 12V (Digital Output)
- Fast response time
T99 < 0.6 seconds
- No calibration required
- 2,000 meter depth rating
- Titanium housing and connector
- Analog or digital data output **New**

AVAILABLE PARAMETERS

- Blue Green Algae
 - Phycoerythrin (marine)
 - Phycocyanin (freshwater)
- CDOM/FDOM
- Chlorophyll *in vivo*
 - Blue excitation
 - Red excitation (high CDOM)
- Fluorescent Dye Tracing
 - Fluorescein
 - Rhodamine
- Crude Oil
- Turbidity
- Optical Brighteners

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OPTICAL SPECIFICATIONS

	Minimum Detection Limit	Linear Range
CDOM/FDOM	0.2 ppb*	0 - 500 ppb*
Chlorophyll <i>in vivo</i>		
Blue Excitation	0.03 µg/L	0 - 100 µg/L
Red Excitation (high CDOM)	0.3 µg/L	0 - 500 µg/L
Fluorescein Dye	0.02 ppb	0 - 150 ppb
Oil - Crude	0.2 ppb**	0 - 300 ppb**
Optical Brighteners	0.08 ppb***	0 - 300 ppb***
Phycocyanin	0.8 ppb ^{PC}	0 - 4,500 ppb ^{PC}
Phycoerythrin	0.1 ppb ^{PE}	0 - 700 ppb ^{PE}
Rhodamine Dye	0.03 ppb	0 - 200 ppb
Turbidity	0.1 NTU	0 - 200 NTU

* Quinine Sulfate

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

*** Uvitex Dye (OBA)

PC Phycocyanin pigment from Prozyme diluted in Deionized water

PE Phycoerythrin pigment from Prozyme diluted in Deionized water

FLUOROMETER PERFORMANCE

Linearity: 0.99R²

PHYSICAL DIMENSIONS

Length x Diameter:

5.2" x 0.9"; 13.24 x 2.23 cm

Weight: 3.1 oz; 89 grams Analog

3.3 oz; 95 grams Digital

ENVIRONMENTAL CHARACTERISTICS

Temperature Range:

Ambient: 0 to 50 deg C

Water Temp: -2 to 50 deg C

Depth Range: 2,000 meters

ELECTRICAL SPECIFICATIONS

T99: <0.6 seconds

Analog Output: 0 - 5 VDC

Digital Output: RS232

Streaming or Polling Modes

Supply Voltage Range: 3 - 15 VDC

Current Draw Analog: 12mA @ 12V

Turbidity 10mA @12V

Red Excitation Chl 16mA @12V

Current Draw Digital: 22mA @ 12V

Turbidity 20mA @12V

Red Excitation Chl 26mA @12V

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.

