

# C-FLUOR

SUBMERSIBLE PROBES



## 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 analog 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. C-FLUOR Probes are pin-compatible with Cyclops Sensors so they are easily integrated into many of the same third-party systems.



## C-FLUOR Highlights

- Low power consumption
  - $\leq 12\text{mA}$  @ 12V
- Fast response time
  - T99 < 0.6 seconds
- No calibration required
- 2,000 meter depth rating
- Titanium housing and connector



Configure with DataBank Handheld Datalogger for field sampling

## Available Probes

- 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

Easily integrates with Submersible Loggers for *in situ* sampling



Logger sold by PME



Trimeter sold by Eureka Water Probes

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## Fluorometer Performance

Linearity: 0.99R<sup>2</sup>

APPLICATION	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 <sup>PC</sup>	0 - 4,500 ppb <sup>PC</sup>
Phycoerythrin	0.1 ppb <sup>PE</sup>	0 - 700 ppb <sup>PE</sup>
Rhodamine Dye	0.03 ppb	0 - 200 ppb
Turbidity	0.05 NTU	0 - 200 NTU

\* Quinine Sulfate

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

\*\*\* Uvitex Dye (OBA)

<sup>PC</sup> Phycocyanin pigment from Prozyme diluted in Deionized water

<sup>PE</sup> Phycoerythrin pigment from Prozyme diluted in Deionized water

## Physical Dimensions

Length x Diameter:

5.2" x 0.9"; 13.24 x 2.23 cm

Weight: 3.1oz; 89 grams

## 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

Signal Output: 0 - 5 VDC

Supply Voltage Range: 3 - 15 VDC

Current Draw: 12mA @ 12V

Turbidity 10mA @12V

## Ordering Information

### ACCESSORIES

Solid Secondary Standards

Flowthrough Cap

Shade Cap (Recommended for most deployments)

0.6 Meter Pigtail Cable with Locking Sleeve

5 Meter Pigtail Cable with Locking Sleeve

10 Meter Pigtail Cable with Locking Sleeve

25 Meter Pigtail Cable with Locking Sleeve

50 Meter Pigtail Cable with Locking Sleeve

Explorer

DataBank Handheld Datalogger

## Contact Us

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