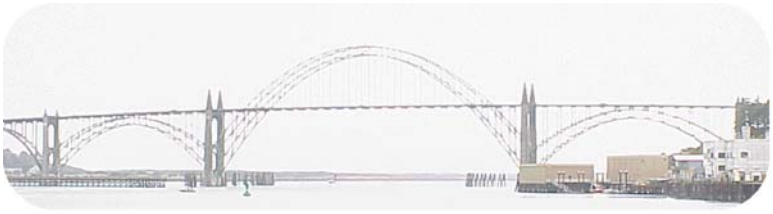
Fluorometer



WET Labs
www.wetlabs.com

WETStar

- **Chlorophyll**
- **CDOM**
- **Uranine**
- **Rhodamine**
- **Phycoerythrin**

The highly successful WETStar fluorometer family is growing! These miniature, low cost, low power optical instruments provide comparable performance to other available fluorometers at a fraction of their cost, power requirements, and size. The unit employs a novel optical flow tube design that lends itself to both pump-through and flow-through operation. It is easily mated with existing CTD packages and is available with optional digital output.

Specifications

Mechanical

Diameter	2.7 in (6.9 cm)
Length	6.7 in (17.1 cm)
Weight in air	1.7 lbs (0.8 kg)
Weight in water	0.25 lbs (0.1 kg)

Environmental

Temperature range	0–30 deg C
Depth rating	600 m

Electrical

Response time	0.17 sec (analog); 0.125 sec (digital)
Input	7–15 VDC
Current draw	< 40 mA (analog); < 80 mA (digital)
Linearity	≥ 99% R^2
Output	0–5 VDC (analog); 0–4095 counts (digital)

Specifications subject to change without notice.

Chlorophyll*—an indicator of viable phytoplankton biomass and chlorophyll concentrations in water.*
EX: 460 nm • EM: 695 nm • Sensitivity: ≥ 0.03 µg/l • Dynamic range: 0.03–75 µg/l (std)

CDOM—*Created from decayed biomass, CDOM contributes to coloration of both fresh and marine waters.*
EX: 370 nm • EM: 460 nm • Sensitivity: 0.100 ppb QSD • Dynamic range: 100, 250, or 1000 ppb

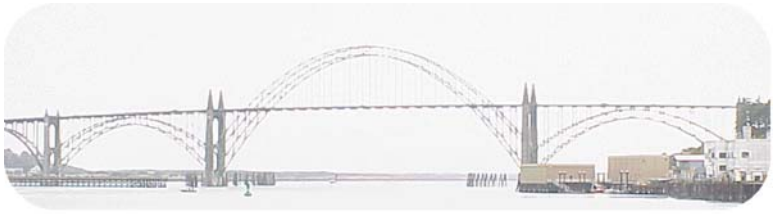
Uranine*—Used as a dye to study hydraulic connections and water transport mechanisms.*
EX: 485 nm • EM: 532 nm • Sensitivity: 1 µg/l • Dynamic range: 1–4000 µg/l uranine

Rhodamine*—Used as a dye similar to uranine.*
EX: 470 nm • EM: 570 nm

New!

Phycoerythrin—*Allows measurement of the red pigment in cyanobacteria.*
EX: 525 nm • EM: 575 nm

WET Labs, Inc. **01-541-929-5650 FAX -929-5277** **www.wetlabs.com**



WETStar

Specifications Sheet

Revision History

Revision	Date	Revision Description	Originator
A	12/01/99	Begin revision control	H. Van Zee
B	01/03/00	Change depth rating; add excitation and emission	D. Hankins
C	12/12/00	Change sensitivity range	D. Hankins
D	11/26/01	Revise ex and em values (DCR 164)	J. Kitchen
E	04/10/02	Add digital capabilities (DCR 213)	H. Van Zee
F	6/8/04	Update format (DCR 402)	H. Van Zee
G	1/11/05	Combine fluorometer specs (DCR435)	M. Everett