

WETStar - Fluorometer family



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% R2
Output	0–5 VDC (analog); 0–4095 counts (digital)

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

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

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Specifications subject to change without notice