

# **WETStar**

These miniature, low cost, low power optical instruments provide comparable performance to other fluorometers at a fraction of their cost, power requirements, and size. WETStar 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 available with digital output.



#### Chlorophyll-a

Chlorophyll-a fluorescence is an indicator of active phytoplankton biomass and chlorophyll concentrations. This measurement is used for tracking biological variability and abundance in the water column.

## **Colored Dissolved Organic Matter**

Created from decayed biomass, CDOM contributes to coloration of both fresh and marine waters.

### Uranine (fluorescein) & Rhodamine

Used as dye to study hydraulic connections and water transport mechanisms.

## **Phycoerythrin**

Allows measurement of the red pigment in cyanobacteria.

## **Specifications**

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Diameter6.9 cmLength17.1 cmWeight in air0.8 kgWeight in water0.1 kg

#### **Optical**

Chlorophyll-a	ex/em: 460/695 nm
Sensitivity	0.03 µg/l
Range	0.03–75 μg/l
CDOM	ex/em: 370/460 nm
Sensitivity	0.100 ppb QSD
Ranges	0–100, 0–250 ppb
Uranine	ex/em: 485/530 nm
Sensitivity	1 μg/l
Range	0–4000 μg/l
Rhodamine	ex/em: 470/590 nm
Rhodamine Phycoerythrin	ex/em: 470/590 nm ex/em: 525/575 nm 99 % R <sup>2</sup>

#### Electrical

input voitage	7-15 VDC
Output, digital	0-4095 counts
Output, analog	0–5 V
Current draw, digital	80 mA
Current draw, analog	40 mA
Response time, digital	0.125 sec
Response time, analog	0.17 sec
Connector	MCBH6MP

#### **Environmental**

Temperature range	0 to 30 deg C
Depth rating	600 m

Specifications subject to change without notice.