SEA·BIRD SCIENTIFIC

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WETStar

Flow-through Fluorometer

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. The analog-output version is easily mated with existing CTD packages, and is also available with digital RS-232 output.

Chlorophyll-a

Provides calibrated, high-resolution (60 Hz signal & 1 Hz average) measurement of mechanically stimulated bioluminescence for assessing water column ecosystem dynamics.

Phycoerythrin

Allows measurement of the red pigment in cyanobacteria.

Shown above with updated MCBH Connector

Optical Specifications

Chlorophyll-a	460/695 nm
Sensitivity	0.03 µg/L
Range	0.03–75 µg/L (standard) 0.06–150 µg/L
Rhodamine	470/590 nm
Sensitivity	0.05 ppb
Range	0-400 ppb
Linearity (all)	99 % R^2

Mechanical

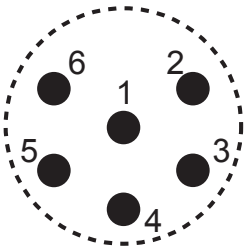
Diameter	6.9 cm
Length	17.1 cm
Weight in air	0.8 kg
Weight in water	0.1 kg

Electrical

Input voltage	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 - 30 °C
Depth Rating	600 m



Wet-Pluggable
MCBH-6MP

Pin	Digital	Analog
1	Ground	Ground
2	RS-232 Rx	--
3	--	--
4	Voltage in	Voltage in
5	RS-232 Tx	--
6	--	Analog out

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