RBR
MEASURE THE BLUE PLANET

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CHLOROPHYLL-*a* SENSOR

LOW POWER, COMPACT DESIGN

The RBR*coda* chl-*a* is a real-time chlorophyll-a sensor rated for depths up to 6000m. Its compact design, fast sampling rates, low power consumption, and a high depth rating, make it suitable for use in a wide variety of applications.

FEATURES

- Low power consumption
- Cabled version with MCBH
- Up to 32Hz sampling
- Depths up to 6000m
- RS-232 output
- Compact and lightweight

The RBR*coda* chl-*a* ensures sensitivity to low concentrations across the measurable range (0-500µg/L). All optical components of the RBRcoda chl-a are robust and durable, selected to minimise aging due to UV/sunlight exposure, thus showing minimal change in properties over extended deployments. Its sapphire windows facilitate automated cleaning by a wiper to keep them free of biofouling during long-term moored deployments.

CHLOROPHYLL-*a* SENSOR

LOW POWER, DYNAMIC RANGE

Specifications

Physical

Connector	MCBH-6-MP
Communications	RS-232
Housing	Titanium
Depth rating	6000m
Diameter	25mm
Length	68mm (104mm with connector)
Weight	110g in air, 70g in water
Operating temperature range	-5°C to +35°C
Sampling rate	Up to 32Hz

Optical

Linearity, R^2	0.99
Initial accuracy	5%

Chlorophyll-*a*

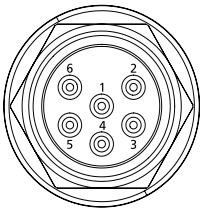
Wavelength	470nm/695nm (excitation/emission)
Calibrated range*	0-50µg/L
Measurement range*	0-500µg/L
Detection limit	0.020µg/L

*Scaled for the in vivo fluorescence response.

Power

Supply voltage	4.5V to 30V (12V nominal)
Power	6.5mJ/sample (4Hz or slower) 180mW (32Hz)
Sleep current	10µA at 12V

MCBH-6-MP connector pinout



- Pin 1 - Ground
- Pin 2 - Power
- Pin 3 - Serial data from sensor
- Pin 4 - Serial data to sensor
- Pin 5 - N/C
- Pin 6 - N/C

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