

Fluorometer Chlorophyll a

max. depth 2000 m.



Sea & Sun
Technology

The Sea & Sun Technology LED Fluorometer is an optical in situ instrument to quantify chlorophyll a up to 2000 m depth. It emits light at a wavelength of 465 nm and detects the fluorescence-response of chlorophyll at 695 nm independent from ambient light. It was designed for integration in SST Multi-Parameter Probes but can also be installed in any other measuring systems. It comes with an analogue output of 0.5-4.5 VDC, small housing, and low power consumption. The serial digital data is output in ASCII format (3.3 V). The sensor has one control lines to switch between two ranges.



Fluorometer Chlorophyll a	
Pressure resistance	2000 dbar
Size / Weight	25 mm diameter, 145 mm lenght, 140 g
Optical window	Glass
Material	Titanium
Temperature range	-2... 50°C in water
Supply Voltage Range	7 - 24 VDC
Signal Output	0.5 - 4.5 VDC Analogue or digital Integrated calibration function for digital version
Integrated corrections	Ambient light suppression Automatic compensation of dropping LED intensity
Measuring ranges	0-50 µg/L and 0-500 µg/L
Linear range / Linearity	0-500 µg/L, 0.99 R ²
Minimum detection limit	0.03 µg/L
Used for	CTD48Mc, CTD75, CTD90, CTD90M, CTD115, CTD115M, MSS



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