

MicroFlu-blue

low-cost blue algae fluorometer

Features:

MicroFlu-chl is a low-cost miniaturized submergeable fluorometer for high-precision and selective chlorophyll fluorescence measurements in blue algae. The combination of a miniaturized design with long-term stability makes it suitable for blue algae monitoring applications in lakes and rivers as well as for all applications in the field of water quality and waste water monitoring.

Internal reference measurement of the emitted light compensates aging and temperature dependences of the high-efficient LEDs, used for fluorescence excitation.

- high sensitivity
- wide operation range
- fast acquisition
- electronic daylight compensation
- miniaturized design
- low power consumption
- low cost
- easy to handle
- RS232 interface
- additional analog data output
- automatic sampling after power-on
- fully RS232 controllable
- easy to use Windows software package
- RS232 auto power down if not connected/used



Light source	Ultra-bright amber LEDs (peak wavelength at 590nm) Output energy controlled by internal reference diode
Detector	Photo-diodes with interference filter (peak wavelength 685nm, 20nm FWHM)
Ranges	0..10µg/l, 0..100µg/l auto-ranging (RS232 only) or pre-set
Sensitivity	0.1µg/l
Interface	RS232 (internal command interpreter for measurement control) and one 0..5V analog out
Power supply	5 - 14.5 VDC, max. 250mW
Housing	Seawater resistant plastic, stainless steel
Size	Ø48 x 200mm (without connector)
Depth range	500m (other versions on request)
Connector	SUBCONN Micro 5pin, male
Weight	Approx. 0.5 kg in air



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