



TECHNICAL SPECIFICATION

Fluorometer FL 6000-S

Fluorometer FL 6000-F

Protocols	
FL 6000-S	- Instantaneous fluorescence - QA- reoxidation kinetics - Kautsky effect - Quenching parameters analysis - Fast OJIP transient - S-states
FL 6000-F	- Instantaneous fluorescence - QA- reoxidation kinetics - Kautsky effect - Quenching parameters analysis - Fast OJIP transient - S-states - Flash Fluorescence Induction (FFI)
Custom defined protocols	variable timing, special language and scripts
Illumination – LED lighting	
Light source	623 nm and 460 nm; other wavelengths available on request
Single turnover flash	Up to 170,000 $\mu\text{mol}(\text{photon}).\text{m}^{-2}.\text{s}^{-1}$
Actinic light	Up to 3,500 $\mu\text{mol}(\text{photon}).\text{m}^{-2}.\text{s}^{-1}$
Detector	
Type	PIN photodiode
Time resolution	4 μs (FL 6000-S) 1 μs (FL 6000-F)
Detection limit	100 ng Chl-a/l (FL 6000-S) 1 μg Chl-a/l (FL 6000-F)
A/D resolution	16 bit
Software	
Type	FluorWin 3.8
Control	Predefined protocol as well as custom defined protocols with variable timing, special language and scripts
Communication	RS232/USB
Accessories (optional)	
Thermoregulator TR 6000	Precise temperature control of the sample in range from +5 to +60 °C; magnetic stirrer highly recommended
Oxygen detector module	Oxygen evolution detection; consists of convertor and electrode; magnetic stirrer highly recommended
Magnetic stirrer	Homogenization of the sample during measurement
Infra-Red LED unit	Measuring of F_o' and PAR absorbance
PC with preinstalled software	Notebook with preinstalled software
Additional measuring unit	Measuring unit constructed with respect to customer's experimental needs: specific LED colors (Blue, Cyan, Amber) and detection bands (Chl-a, Chl-b)

Other	
Control unit dimension	365 x 275 x 150 mm
Measuring unit dimension	Diameter 160 x 60 mm
Total weight	Appr. 5 kg
Electrical	90 VAC – 240 VAC, 50 Hz – 60 Hz