

TECHNICAL SPECIFICATION

Fluorometer FL 6000-S

Fluorometer FL 6000-F

| Protocols | |
|-------------------------------|---|
| FL 6000-S | <ul style="list-style-type: none"> - Instantaneous fluorescence - QA- reoxidation kinetics - Kautsky effect - Quenching parameters analysis - Fast OJIP transient - S-states |
| FL 6000-F | <ul style="list-style-type: none"> - 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_0' 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 |