

TECHNICAL SPECIFICATION

FluorPen FP 110

PAR-FluorPen FP 110

| Protocols | |
|-------------------------------|---|
| PAR-FluorPen FP 110 | <ul style="list-style-type: none"> - Ft – instantaneous chlorophyll fluorescence - Quantum Yield - OJIP - Non-photochemical quenching - Light curve - Photosynthetically Active Radiation (measured as PPFD) |
| FluorPen FP 110 | <ul style="list-style-type: none"> - Ft – instantaneous chlorophyll fluorescence - Quantum Yield - OJIP - Non-photochemical quenching - Light curve |
| LED lighting | |
| LED emitter | Blue (470 nm), other wavelengths on request |
| Saturating pulse Illumination | Up to 3,000 $\mu\text{mol}(\text{photon}).\text{m}^{-2}.\text{s}^{-1}$ (adjustable from 10 to 100%) |
| Actinic Illumination | Adjustable from 10 to 1,000 $\mu\text{mol}(\text{photon}).\text{m}^{-2}.\text{s}^{-1}$ |
| Measuring Illumination | Up to 0,09 $\mu\text{mol}(\text{photon}).\text{m}^{-2}.\text{s}^{-1}$ per pulse (adjustable from 10 to 100%) |
| Detector | |
| Type | PIN photodiode with bandpass filters |
| Wavelength range | From 667 to 750 nm |
| Data storage and transfer | |
| Internal memory capacity | Up to 16 Mb |
| Internal data logging | Up to 149,000 measurements (depending on protocol) |
| Data transfer | USB cable Bluetooth (transfer up to 3Mbps for distance up to 20m) |
| PC software | FluorPen 1.1 (Windows 7 and higher) |
| Battery | |
| Type | Li-Ion rechargeable battery |
| Capacity | 2000 mAh |
| Max. charging current | 0.5 A |
| Charging | Via USB port - PC, power bank, USB charger, etc. |
| Battery life | 48 hours typical with full operation (low battery indicator) |
| Other | |
| Sample holder | Standard leaf-clip (FP 110/S) Detachable leaf-clip (FP 110/D) Probe (FP 110/P) |
| PAR sensor cosine correction | Cosine corrected up to 80° angle of incidence |
| Display | Graphical display |
| Keypad | Sealed, 2-key tactile response Turns off after 5 minutes of no use |
| Built in GPS module | Ultra-high sensitivity down to -165dBm |



PSI (Photon Systems Instruments), spol. s r.o.

Drasov 470, 664 24, Czech Republic

+420 511 440 012

info@psi.cz

VAT: CZ60646594

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|----------------------|---|
| | High accuracy of <1.5 m in 50% of trials |
| Size | 134 x 65 x 33 mm |
| Weight | 188 g |
| Operating conditions | Temperature: 0 to +55 °C Relative humidity: 0 to 95 % (non-condensing) |
| Storage conditions | Temperature: -10 to +60 °C Relative humidity: 0 to 95 % (non-condensing) |
| Warranty | 1-year parts and labor |