EkoTechnika
Environmental diagnostics equipment

ROSTLINY

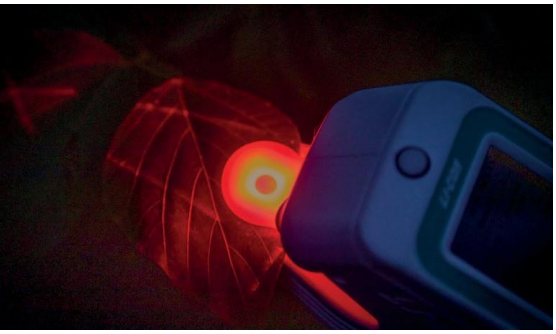
LI-600 - Fluorometr / Porometr

Základní vlastnosti

- Kombinovaný porometr a fluorometr
- Přístroj měří stomatální vodivost a fluorescenci chlorofylu na stejném vzorku listu
- Měření adaptace listu na světlo (**„light adapted“**) a tmu (**„dark adapted“**)
- Velmi rychlé měření v řádu jednotek sekund
- Kompaktní přenosný přístroj, hmotnost pouze 0,73 Kg
- Integrovaná čtečka čárových kódů pro snadnou identifikaci vzorku, integrovaný generátor kódů
- Interní Li-ion baterie pro až 8 hodin provozu

Integrovaný GPS, magnetometr/akcelerometr pro měření sklonu,směru a náklonu listu pro výpočet úhlu dopadu listu.

LI-COR®



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Technická specifikace

General

- *Measurement time:*
  - *Porometer: 5 to 15 seconds typically, depending on species, leaf or needle surface characteristics, and conditions*
  - *Fluorometer: 1 second*
- *Operating conditions:*
  - *Temperature: 0 to 50 °C*
  - *Pressure: 50 to 110 kPa*
  - *Humidity: 0 to 85%; non-condensing*
- *Weight: 0.68 kg (porometer only); 0.73 kg with fluorometer*
- *Dimensions: 32.4 cm × 16.9 cm × 6.2 cm (L × W × H)*
- *GPS: Accuracy 2.5 m CEP*
- *Display:*
  - *Dimensions: 6.8 cm diagonally*
  - *Resolution: 400 × 200 pixels; sunlight readable monochrome*
- *Keypad: 5-button membrane pad*
- *Battery:*
  - *Built-in Li-ion*
  - *Operating hours: 8 hours typically*
  - *Capacity: 5200 mAh*
  - *Recharging time: 3.5 hours typically; 2 hours with Qualcomm® Quick Charge™ 2.0 or 3.0*
- *Data storage: 128 MB*
- *USB specifications: Communication/charging interface: Micro-B Qualcomm® Quick Charge™ 2.0 or 3.0 for rapid charging*
- *Universal charging adapter:*
  - *Input: 90 to 264 VAC; 50 to 60 Hz*
  - *Output: 5 VDC; 1 Amp*
- *Configuration software: Windows® and macOS® applications*
- *Data output: Plain text files (comma or tab-delimited) and an .xlsx file with embedded equations.*
- *Barcode scanner: 1-D and 2-D, including Code 39, Code 128, PDF417, 100% UPC, Data Matrix, QR Code*
- *Photosynthetically Active Radiation (PAR) measurement:*
  - *Units: Photosynthetic Photon Flux Density (PPFD); µmol m^{-2} s^{-1}*
  - *Calibration accuracy: ±10% of reading; traceable to NIST*
  - *Cosine correction: Cosine corrected up to 60° angle of incidence*

**High flow may not be achievable at higher altitudes*

Specifications are subject to change without notice

Porometer

- *Leaf and needle sizes:*
  - *LI-600:*
    - *Length and width: 7.5 mm minimum*
    - *Thickness: 2.8 mm maximum*
  - *LI-600N:*
    - *Width: 1-3.5 mm*
    - *Length: 14.2 mm minimum*
    - *Thickness: 2.8 mm maximum*
- *Flow rates:*
  - *Low: 75 µmol s^{-1}*

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  - *Medium: 115 µmol s^{-1}*
  - *High: 150 µmol s^{-1}**
- *RH sensor accuracy: ±2% RH*
- *Reference temperature: ±0.2 °C*
- *Leaf temperature sensor accuracy: ±0.5 °C*
- *Inlet flow measurement: ±1% of reading from 75 µmol s^{-1} to 150 µmol s^{-1}*
- *Exhaust flow measurement: ±5% of full scale up to 150 µmol s^{-1}*
- *Parameters:*
  - *g_{sw} mol m^{-2} s^{-1}; g_{bw} mol m^{-2} s^{-1}; g_{tw} mol m^{-2} s^{-1}; E mmol m^{-2} s^{-1}*
  - *VP_{cham} kPa; VP_{ref} kPa; VP_{leaf} kPa; VPD_{leaf} kPa*
  - *H_2O_{ref} mmol mol^{-1}; H_2O_{samp} mmol mol^{-1}; H_2O_{leaf} mmol mol^{-1}*

Fluorometer

- *Flash types: User configurable Rectangular and Multi-phase Flash™ (MPF)*
- *Measuring light peak wavelength: 625 nm*
- *Measuring light peak intensity: 0 to 10,000 µmol m^{-2} s^{-1}*
- *Flash intensity: 0 to 7500 µmol m^{-2} s^{-1}*
- *LED risk group: Exempt group in acc. with IEC 62471:2006. The LED does not pose any photobiological hazard*
- *Parameters:*
  - *F_o; F_m; F_v; F_v/F_m; F_s; F_m'; Φ_{PSII}; ETR*