# Porometer/Fluorometer

Model **LI-600N** | Brand **Master Science**




LI-600N Porometer/Fluorometer

The LI-600N Porometer/Fluorometer is a specialized device designed for rapid and accurate measurement of stomatal conductance and chlorophyll fluorescence, specifically for needles, narrow leaves, and grasses. Below is a summary of its features and specifications: Key Features1. Optimized for Narrow Leaves: The only instrument tailored for single needles, narrow leaves, or blades of grass. Provides precise measurements even for challenging leaf morphologies. 2.

KEY HIGHLIGHTS

- Barcode scanner for efficient data tracking and management.
- Additional Information

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## Overview

The LI-600N Porometer/Fluorometer is a specialized device designed for rapid and accurate measurement of stomatal conductance and chlorophyll fluorescence, specifically for needles, narrow leaves, and grasses. Below is a summary of its features and specifications:

## Key Features

The only instrument tailored for single needles, narrow leaves, or blades of grass.

Provides precise measurements even for challenging leaf morphologies.

COMPACT AND LIGHTWEIGHT (0.68–0.73 KG).

Durable construction for field use in varied environmental conditions.

GPS with 2.5 m accuracy for precise geolocation of measurements.

SUNLIGHT-READABLE MONOCHROME DISPLAY FOR OUTDOOR USABILITY.

**Barcode scanner for efficient data tracking and management.**

**Additional Information**
The LI-600N offers a powerful and efficient solution for researchers studying plant physiology, making it an essential tool for precise data collection in both laboratory and field settings.

## Technical Specifications

| PARAMETER | SPECIFICATION |
|---|---|
| Porometer measurements | 5–15 seconds, depending on the sample and conditions. |
| Fluorometer measurements | 1 second. |
| Operating Conditions (Temperature) | 0 to 50 °C. |
| Operating Conditions (Pressure) | 50 to 110 kPa. |
| Operating Conditions (Humidity) | 0–85% (non-condensing). |
| Data Management (Storage) | 128 MB. |
| Data Management (Formats) | Text files (.txt, .csv) and .xlsx files. |
| Data Management (Compatibility) | Windows® and macOS®. |
| Leaf Compatibility (LI-600) | Min. size 7.5 × 2.8 mm. |
| Leaf Compatibility (LI-600N) | Width 1–3.5 mm; length ≥14.2 mm. |
| Accuracy (Relative humidity) | ±2%. |
| Accuracy (Reference temperature) | ±0.2 °C. |
| Accuracy (Leaf temperature sensor) | ±0.5 °C. |
| Flow Rates (Low) | 75 µmol/s. |
| Flow Rates (Medium) | 115 µmol/s. |
| Flow Rates (High) | 150 µmol/s. |
| Light Source (Measuring light peak wavelength) | 625 nm. |
| Light Source (Flash intensity) | 0–7500 µmol $m^{-2}$ $s^{-1}$. |
| Built-in 5200 mAh Li-ion battery; 8 hours of operation. | |
| Quick charging (3.5 hours; 2 hours with Qualcomm® Quick Charge™). | |
| Fo, Fm, Fv, Fv/Fm, Fs, Fm', ΦPSII, ETR. | |
| Exempt from photobiological hazards (IEC 62471 | 2006). |

## Applications

- **Agricultural research.**
- **Forestry and ecological studies.**
- **Environmental monitoring and plant physiology.**