METER
ENVIRONMENT

SC-1 Leaf Porometer

Stomatal conductance superior simplicity



- **Accurate**
- **High speed results (readings in 30 seconds)**
- **Straightforward calibration**
- **Affordable**
- **No moving parts**
- **Lightweight, easy to carry**
- **Save and download data (USB cable and download utility software included**

The SC-1 is designed to provide you with a simple solution to a complex problem. By measuring vapor flux from the leaf through the stomates, it enables you to tell the difference between transpiring leaves and ones that have shut down. High-speed results, ease of use, and a low cost mean more measurements in less time without blowing your budget.

Not only can you make accurate leaf conductance measurements in only thirty seconds, but you can calibrate the SC-1 in just a few minutes. After calibrating, simply clip it on the leaves you are interested in and start measuring stomatal conductance.

SPECIFICATIONS

Accuracy	+/- 10% of measurement from 0 to 500 mmol/(m^2s) NOTE: The SC-1 can measure higher than 500 mmol/(m^2s) and detect relative stomatal conductance change in the high range, but absolute accuracy becomes unverifiable past 500 mmol/(m^2s).
Conductance range	0 to 1,000 mmol/(m^2s)
Resolution	0.1 mmol/(m^2s)
Operating environment	5 to 40 °C, 0 to 100% RH, with desiccant chamber
Power	Four "AA" batteries
Battery life	3 years (battery drain in sleep mode < 50 µA)
Measurement units	mmol $m^{-2}s^{-1}$, m^2s mol^{-1}, s/m
Data storage	4095 measurements in flash memory
Computer interface	USB
Aperture diameter	6.35 mm
Sensor head cable	1.2 m
Desiccant	Indicating DrieRite, 10-20 mesh
Measurement time	30 s (in auto mode)

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