



METER



SC-1 Leaf Porometer

Stomatal Conductance

STOMATAL CONDUCTANCE IS COMPLICATED. MEASURING IT DOESN'T HAVE TO BE

Most measurements in the soil-plant-atmosphere continuum are fairly straightforward. Measuring stomatal conductance is not. And since stomatal conductance can't be predicted from theory and must be measured, you need an instrument that's easy to use. You need the SC-1.

COMPLEX SCIENCE IN A SIMPLIFIED PACKAGE

Backed by solid scientific theory and 20 years of research, 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.

FEATURES

- 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)

SPECS

Stomatal Conductance	Range: 0 – 1000 mmol/(m ² s) Resolution: 0.1 mmol/(m ² s) Accuracy: ±10% of measurement from 0 to 500 mmol/(m ² s) NOTE: The SC-1 can measure higher than 500 mmol/(m ² s) and detect relative stomatal conductance change in the high range, but absolute accuracy becomes unverifiable past 500 mmol/(m ² s).
Measurement Time	30 s
Dimensions	Length: 15.8 cm (6.2 in) Width: 9.5 cm (3.8 in) Height: 3.3 cm (1.3 in)
Sensor Aperture Diameter	6.35 mm (0.25 in)
Sensor Cable Length	1.2 m (4 ft)
Universal Power	4 AA batteries (not included)
Data Storage	4,095 measurements in flash memory
Battery Life	2 years (battery drain in sleep mode is <50 µA)
Sensor Head Dimensions	Length: 12.0 cm (4.7 in) Width: 2.5 cm (1.0 in) Height: 5.5 cm (2.2 in)
Operating Temperature Range	Minimum: 5 °C Maximum: 40 °C
Operating Relative Humidity Range	Minimum: 1% Maximum: 100% , with desiccant chamber
Connector Types	Serial-to-USB
Compliance	EM ISO/IEC 17050:2010 (CE Mark)
GSA	View GSA details

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