

# SC-1 Leaf Porometer

[metergroup.com/environment/products/sc-1-leaf-porometer/](http://metergroup.com/environment/products/sc-1-leaf-porometer/)



## Stomatal Conductance

### Superior simplicity

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 there aren't any equations for estimating stomatal resistance, you need an instrument that's easy to use. Presenting the SC-1.

### Measures up in every way

Backed by solid scientific theory and 15 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.

### Simply faster

Not only can you make accurate leaf resistance measurements in only thirty seconds, but you can calibrate the SC-1 in 5-10 minutes. After calibrating, simply clip it on the leaves you are interested in and start measuring stomatal conductance.

### Simply easier

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The SC-1 is simpler to use for a variety of reasons. It's lightweight, so you won't get fatigued carrying it around in the field (or around your neck, for that matter). What's more, breakthrough steady-state technology means it doesn't have any moving parts, making it easy and reliable to use. Plus, calibrations are simple to do, and readings can be displayed as either leaf vapor conductance or resistance and saved for downloading later (RS232 cable and utility software included).

## Simply affordable

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There's low-cost, and then there's lifetime low-cost. The SC-1 is affordable to begin with. And because it's also low-maintenance, you won't have to keep dipping into your budget to get it repaired when the pump breaks or a seal goes bad. These combine to save you money in both the short- and long-term.

## Simply the best value

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Quick measurements. Easy to use engineering. Low-cost in the short and the long run. The SC-1's breakthrough steady-state technology makes it the best all-around instrument for measuring stomatal conductance. Save yourself time, hassle and money with the leaf porometer that does all three.

### [Get pricing](#)

[Features](#) [Specifications](#) [Accessories](#) [Support / Downloads](#)

## Features

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- Accurate
- High speed results (readings in 30 seconds)
- Straightforward calibration
- Affordable
- No moving parts
- Lightweight, easy to carry
- Save and download data (RS232 cable and download utility software included)

## Specifications

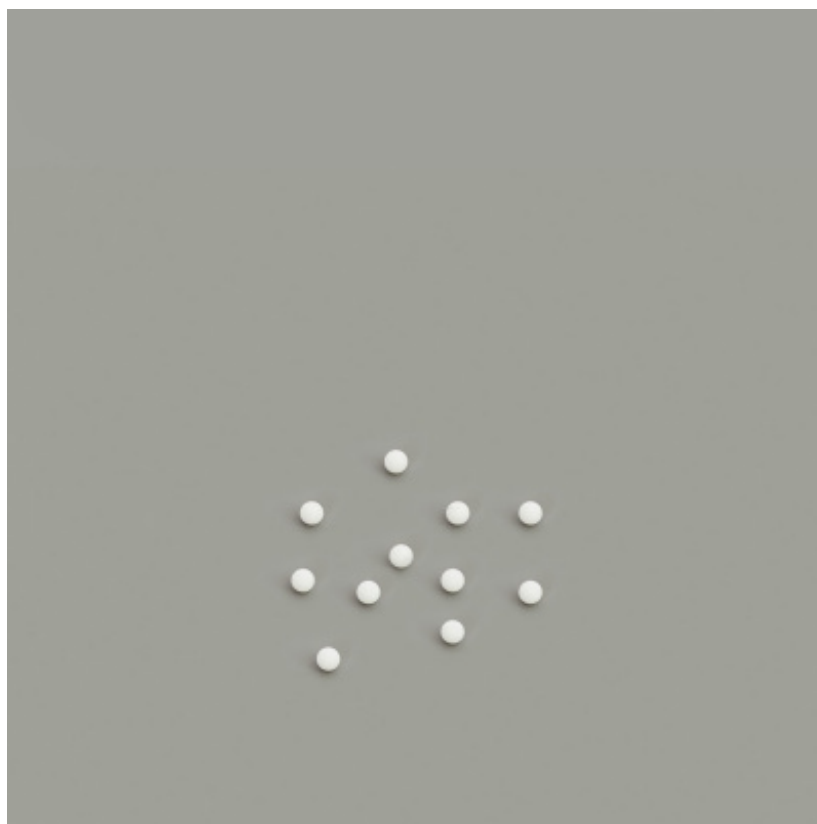
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Accuracy	10% of measurement
Conductance range	0 to 1000 mmol m <sup>-2</sup> s <sup>-1</sup>
Operating environment	5 to 40 °C, 0 to 100% RH, with desiccant chamber
Power	Four "AA" batteries
Battery life	3 years (battery drain in sleep mode < 50 μA)
Measurement units	mmol m <sup>-2</sup> s <sup>-1</sup> , m <sup>2</sup> /s mol <sup>-1</sup> , s/m

Data storage	4095 measurements in flash memory
Computer interface	9 pin serial RS232 interface
Aperture diameter	6.35 mm
Sensor head cable length	1.2 m (4 ft)
Desiccant	Indicating DrieRite, 10-20 mesh
Measurement time	30 s (in auto mode)

## Accessories

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## SC-1 Porometer Spare Agitation Beads

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SC-1 Leaf Porometer Spare Pads for Leaf Clip

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SC-1 Leaf Porometer Spare Filter Pack

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SC-1 Leaf Porometer Replacement Leaf Clip

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Extra Filter Paper for Calibration (Watman #3)

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## Desiccant (2 oz. Bottle)

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### Support

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Have a question or problem? Our support team can help.

We manufacture, test, calibrate, and repair every instrument in-house. Our scientists and technicians use the instruments every day in our product testing lab. No matter what your question is, we have someone who can help you answer it.

Email: [support.environment@metergroup.com](mailto:support.environment@metergroup.com)

Phone US: +1 509-332-5600

Phone Europe: +49 89 12 66 52 0

### Downloads

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SC-1 Firmware updater for instrument with desiccant chamber EXE / 1.29 MB

SC-1 Leaf Porometer Firmware Updater for instrument without desiccant chamber EXE /

1.39 MB



[SC-1 Leaf Porometer manual PDF / 5.22 MB](#)

[SC-1 Leaf Porometer Quick Start Guide PDF / 156.62 KB](#)

SC-1 Leaf Porometer Utility Installer EXE / 9.02 MB

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