



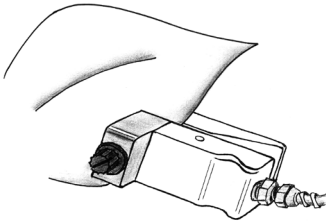
# SC-1 Leaf Porometer Quick Start Guide

Read this before using your Leaf Porometer

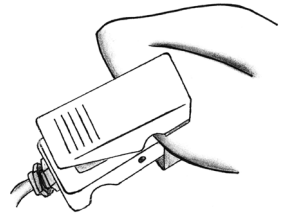
## Making a Measurement

1. Connect the sensor head to your Porometer via the serial port. Press the Power button on the keypad.
2. While on the Main screen, press Enter to begin the reading.
3. Place the sensor on the top or bottom of the leaf, as indicated by the pictures. Make sure not to have desiccant chamber facing upward!

Measuring  
top of leaf



Measuring  
bottom of leaf



If using a bead in conjunction with desiccant, only take readings with the metal portion towards the ground.

4. A progress bar will appear, indicating that a reading is taking place.

Measurement	<input type="checkbox"/>	12:36
164.6 $\frac{\text{mmol}}{\text{m}^2\text{s}}$	$\updownarrow$	00:25
23.2°C		23.3°C
71.9%		51.5%
Auto		

Select Method	
7.0 $\frac{\text{mmol}}{\text{m}^2\text{s}}$	<input checked="" type="radio"/> Save
	<input type="radio"/> Annotate
22.2°C	<input type="radio"/> Discard
Record 136 of 4095	

5. Once the reading is complete, save the reading by selecting a save method and pressing Enter. Selecting “Annotate” allows you to name the measurement you are saving. Use the arrow keys to select a letter or number. Press Enter to move to the next character, or Escape to move to the previous one. Holding down the up or down arrow key will scroll through the alphabet quickly and will allow you to more easily choose a character. When you have finished, press Enter until you return to the Main screen.

Annotate	
237.0 $\frac{\text{mmol}}{\text{m}^2\text{s}}$	ID:
	$\uparrow$
22.5°C	$\downarrow$ -----
Record 136 of 4095	

## Modes

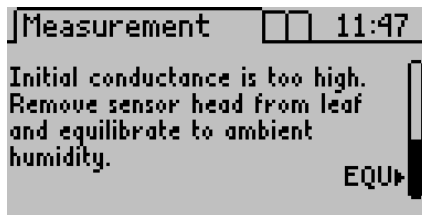
Use Auto or Manual mode to take readings, based on your leaf's stomatal conductance:

- Auto mode is for conductances between 5 to 1000 mmol/m<sup>2</sup> s and should be used in almost every case.
- Manual mode is for conductances lower than 100 mmol/m<sup>2</sup> s and should be only used in special cases.

Go to the Configuration menu to change the mode.

## Troubleshooting

1. If the following screen appears when a sensor is placed on the leaf, leave the sensor closed and shake the sensor in a vertical motion to use the bead to mix the air until the bar drops below the equilibrium marker. Do not blow into the sensor; this can cause inaccurate readings when the measurement begins.



2. If you begin a reading in Auto mode, and nothing happens, this means that your initial stomatal conductance is lower than 5 mmol/m<sup>2</sup> s. This is the minimum limit for taking readings in Auto mode.

## Cautions

- Avoid leaves that are wet or heavy with dew; never take readings in rain.
- It is recommended that desiccant is always used for taking measurements.
- Never blow into the sensor.
- When taking measurements with the bead in place, be sure the desiccant cap is facing downward.
- Clean the sensor periodically with a dry swab to keep it free of dirt and pollen that can build up during use and affect readings.
- Avoid chemical fumes, which can be extremely harmful to the sensor (i.e. alcohol, gasoline, foam). Consult the manual for more information.

