At a glance

SC-1 Porometer

The SC-1 Leaf Porometer is a battery-operated, menu-driven device used to measure stomatal conductance of leaves. The Leaf Porometer measures stomatal conductance by putting the conductance of a leaf in series with two known conductance elements, and comparing the humidity measurements between them. The SC-1's breakthrough steady-state technology makes accurate stomatal conductance measurements affordable and practical for everyday research.

Specifications

Accuracy: 10%

Measurement/Conductance Range:
0-1000 mmol/m^2s^1

Operating Environment: 5 - 40° C; 0-100% relative humidity with desiccant chamber

Measurement Time: 30 seconds (in auto mode)

Measurement Units: mmol/m^2s, m^2s/mol, s/m

Sample Chamber Aperture: 6.35mm (.25 in)

Microcontroller Dimensions: 15.8 x 9.5 x 3.3 cm
(6.2 x 3.75 x 1.3 in)

Data Storage: 4095 measurements

Data Retrieval: Direct via RS-232

Interface Cable: RS-232 serial cable(included)

Software: Leaf Porometer Utility (included)

Power Supply: Four type "AA" batteries (included)

Battery Life: 3 years
(battery drain in sleep mode < 50µA)

Sensor Head Cable Length: 1.2 m (4 ft)

Desiccant: Indicating DrieRite, 10-20 mesh

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