

Portable Soil Carbon Flux Automatic Measurement System

Unlock the potential of soil carbon monitoring with the PS-9000 and elevate your research to new heights!

Experience the power of precision with the PS-9000, a groundbreaking portable measurement system that revolutionizes the assessment of soil CO2 flux through the dynamic chamber method. This innovative system seamlessly integrates control measurement, data storage, and processing capabilities, enabling you to effortlessly monitor changes in CO2 concentration in the chamber. By leveraging additional measurements such as air temperature, barometric pressure, and soil temperature, the PS-9000 delivers accurate and insightful calculations of soil CO₂ flux.

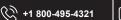
Packed with user-centric features, the PS-9000 offers wireless operation via a handheld controller, presenting real-time data that empowers you to make informed decisions. Adjust settings with ease and access valuable information at your fingertips.

Key Benefits

- Gain confidence in your findings with reliable and verifiable flux measurements.
- With a simple, one-click interface, achieving results has never been easier.
- Its lightweight design allows for hassle-free transportation, making it the ideal companion for fieldwork.
- Low power requirements ensure you can conduct outdoor measurements all day without interruptions.
- Say goodbye to data post-processing—your results are displayed and stored instantly, saving you valuable time.







Specifications



PS-9000 Control Unit

Measurement principle	Non-Dispersive Infrared Absorption Method(NDIR)
Measuring range	CO ₂ : 0-6000 ppm
	H ₂ O : 0-60000 ppm
Accuracy	< 1% of the data reading
Repeatability / Precision	< 1 ppm
Operating temperature	- 20 ~ 60 °C
Power requirements	< 40 W
Storage medium	SD card
Communication interface	WIFI, RS-232, SDI-12
Synchronous pump	12 V, < 0.5 A
Flow rate	3 L / min
Battery type	24 v- 8 AH lithium battery
Battery life	Not less than 5 hours(one battery)
Dimensions	37 x 30 x 16 cm
Weight	7.3 kg (including one battery)

SC-12 Soil Survey Chamber

Measuring Area	276.27 cm ²
Volume of air chamber	3451.00 cm ³
Cable Length	2 m
Power requirements	< 2.2 W
Dimensions	27.5 x 24.5 x 44.5 cm
Weight	3.85 kg

LI-520A Soil temperature and humidity sensor

Humidity measurement range	0-100%
Accuracy	±2%(0-50%), ±3%(51-100%)
Temperature measurement range	-30 ∼ +70°C
Accuracy	±0.5°C
Communication mode	SDI-12
Cable Length	2 m



Ordering Information

PS-9000: Portable Control Unit (Including one soil temperature and humidity sensor, two lithium batteries, and chargers) SC-12: Soil Survey Chamber

Support: Provide technical support and service for life

Manufacturer: LICA, China



