



# PS-9000

## 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 <sub>2</sub> : 0-6000 ppm H <sub>2</sub> 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)

### 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

### SC-12 Soil Survey Chamber

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



### 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**

