



SF-9000

Multi-Channel Soil Carbon Flux Automatic Measurement System

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

The SF-9000 Multi-Channel Soil Carbon Flux Automatic Measuring System, manufactured by LICA in China, is capable of measuring soil CO₂ flux at various locations, enabling continuous and long-term monitoring of soil carbon flux. The SF-9000 can operate with up to 18 soil chambers and is also suitable for studying CO₂ and water vapor profiles.

Main Features

- The control system supports the connection of up to 18 soil chambers, making it ideal for experimental designs that require multiple repetitions and processes.
- It allows for long-term field monitoring without the need for human supervision, facilitating continuous, high-precision, and automatic unattended monitoring.
- The system automatically calculates gas flux without the need for post-processing of data. Each chamber can be equipped with additional sensors, such as those for measuring soil temperature and moisture.
- The system is lightweight, energy-efficient, and built for durability.
- The storage medium utilized is an SD card.



Specifications

SF-9000

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
Number of chambers	9 or 18
Storage medium	SD card
Communication interface	RS-232 / RS-485 / SDI-12
Synchronous pump	4.2 L / min
Display	5-inch LCD touch screen
Operating Range	Temperature : - 20 ~ 60 °C Humidity : 0 ~ 95% RH (Non-condensing)
Dimensions	51 x 40 x 19 cm
Weight	14.1 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

SC-22 Automatic Long-term Soil Chamber

Measuring area	276.27 (cm ²)
Volume of air chamber	3243.8 (cm ³)
Cable length	15 m
Operating temperature	- 20 ~ 60°C
Barometric pressure detection	Measurement range: 15 ~ 115 kPa Measurement accuracy: ± 1.5%
Temperature detection	Measurement range: - 25 ~ 85°C Measurement accuracy: ± 0.5°C
Dimensions	55 x 28 x 32 cm
Weight	8.55 kg



Ordering Information

SF-9000-09: Multi-Channel Soil Carbon Flux Automatic Measurement System

Including CO₂ and H₂O analyzer, 9 channels, LCD screen, 1 adapter, 1 DC cable.

SF-9000-18: Multi-Channel Soil Carbon Flux Automatic Measuring System

Including CO₂ and H₂O analyzer, 18 channels, LCD screen, 1 adapter, 1 DC cable.

SC-22: Automatic Long-term Soil Chamber

Support: Provide technical support and service for life

Manufacturer: LICA, China

