



PS-9640 Portable Soil Greenhouse Gas Flux Measurement System

It can simultaneously measure three greenhouse gases—CO₂, CH₄, and N₂O—with high precision.

The analyzer uses laser spectroscopy technology, achieving measurement accuracy at the ppb level.

No computer is needed; the mobile app allows for display and control, making it convenient and easy to use.

Easy to operate, accurate measurement results can be obtained with just one click.

The measurement results are displayed and stored directly, eliminating the need for post-processing.

Powered by a lithium-ion battery, the device is lightweight and suitable for outdoor use.

The ergonomic strap design makes it easy to carry and operate, reducing the burden on the user.

Two modes: continuous concentration measurement and flux observation, meeting different research needs.

The power consumption is as low as 50W.



Soil is a significant source of greenhouse gases. Accurately measuring soil greenhouse gas flux is a crucial technique for studying global atmospheric environment and ecosystem changes, and a necessary means to achieve carbon neutrality goals. The PS-9640 portable soil greenhouse gas flux measurement system can be used to measure the flux of greenhouse gases such as CH₄, CO₂, and N₂O in soil, contributing to the achievement of carbon neutrality targets.

Specification

Greenhouse Gas Analyzer

Three kinds of Greenhouse Gases (CO₂, CH₄, N₂O)

Precision (1 σ , 1s) :

CO ₂	< 440 ppb
CH ₄	< 2 ppb
N ₂ O	< 200 ppt

Measurement Range:

CO ₂	10 ppm – 100,000 ppm
CH ₄	1 – 200 ppm
N ₂ O	2 ppb – 500 ppm

Console:

Data Logging	SD Card
Interface	RS-232 / SDI-12 / WIFI

Environment:

Operation Range 0°C-45°C

SC-15 Portable Automated Soil Chamber

Area	276.27 cm ²
Volume	436.13 cm ³
Temperature	Range: -25-85°C Precision: $\pm 0.5^{\circ}\text{C}$
Environment	-20-60°C
Power	< 12W
Cable Length	2 meter
Size	25.5X25.5X40.6 cm
Weight	4.55kg

Ordering Information:

- 1.PS-9640: Greenhouse Gas Analyzer、 Console (Power Adapter, SD Card, two Lithium battery and charger)
- 2.SC-15: Portable Automated Soil Flux Chamber

Manufacturer: Beijing LICA United Technology Ltd.

