

# Soil & Net Canopy CO<sub>2</sub> Flux

Survey & Long-Term Solutions



*Elevate your research experience.*

# EGM-5 Portable CO<sub>2</sub> Gas Analyzer

As versatile as it is mobile, the popular EGM-5 Portable CO<sub>2</sub> Gas Analyzer is the instrument of choice for the survey measurement of soil CO<sub>2</sub> efflux when your application demands portability with a high level of accuracy and control at an affordable price. Quick setup and intuitive software provide a highly user-friendly experience for monitoring, logging, and recording environmental sensor data in real-time.



Optional collars are available for use with the SRC-2 (shown) & CPY-5 chambers.

## Powerful Battery Technology

An energy-efficient, rechargeable Li-ion battery allows for up to 16 hours of field operation.

## Touch Display

The large, high-contrast display offers outstanding readability in the brightest sunlight.

## Rugged Portability

Compact and lightweight (1.5 kg), the rugged aluminum enclosure and shock-absorbing polyurethane base provide absolute reliability under the harshest environmental conditions.

## Integral Sampling Pump

A miniature, long-life air sampling pump comes standard for dynamic gas sampling and if needed, is easily disabled for static measurements.

## Minimal Maintenance

No need for factory recalibration — saving you both time and money.

"After trying several different IRGAs, I quickly settled with EGMs. They offer highly accurate, real-time on-screen flux calculations, withstand harsh field conditions, and are very portable and affordable. I have now used EGM-4s & EGM-5s with SRC chambers in several countries."

— Louis-Pierre Comeau  
Agriculture and Agri-Food Canada

## Additional environmental chambers & sensors to meet your soil measurement needs:

### Soil CO<sub>2</sub> Efflux



**SRC-2 Soil Respiration Chamber**  
With built-in temperature sensor

### Soil Temperature



**STP-2 Soil Temperature Probe**  
Commonly used with our SRC-2 Soil Respiration Chamber

### Soil Moisture & Soil Temperature



**Stevens HydraProbe**

### Net Canopy CO<sub>2</sub> Flux



**CPY-5 Canopy Assimilation Chamber**  
Includes sensors for measurement of air temperature & PAR

# CFLUX-1 Automated Soil CO<sub>2</sub> Flux System

The CFLUX-1 Automated Soil CO<sub>2</sub> Flux System is the latest innovation in a long line of trusted and tested technology for the measurement of soil respiration from PP Systems. The CFLUX-1 is a dedicated, self-contained system for long-term deployment and unattended operation. Fully automatic and programmable, the CFLUX-1 is ideal for both spatial and temporal analysis.

## Built-in CO<sub>2</sub> & H<sub>2</sub>O Gas Analyzers

Eliminate issues associated with long distances between chambers, analyzers and multiplexing devices. Rely on accurate measurements and fast response times regardless of where each system is stationed.

## Large Hemispherical Chamber (2500 cm<sup>3</sup>)

The large chamber is articulating for automated soil measurements with repeatable placement, with a power-efficient actuator and electronics to control the opening and closing of the chamber at user-defined time intervals.

## Soil Moisture & Soil Temperature

Soil moisture and soil temperature can be measured and recorded along with flux data. *(Optional)*

## WiFi

Set up and monitor the system remotely from your phone or computer. Connect to a local computer with a router — monitor from anywhere in the world.

## Data Storage

Enjoy the option of full data storage direct to a USB Flash Drive (memory stick) or to an external data logger.

## Software & Data Analysis

Conveniently view sensor data and information via a computer or your mobile device.



Soil Moisture & Soil Temperature



Stevens HydraProbe

"I am into my second year with my CFLUX-1 systems and continue to be impressed with how low maintenance they are. They keep collecting great data with very minimal effort on my lab's part."

— Caitlin Hicks Pries  
Dartmouth College

With all key components built into a single station, there is no limit to where systems can be placed in the field. No need for multiplexing chambers!

# Already have our CIRAS-4, CIRAS-3 or TARGAS-1 Portable Photosynthesis Systems?

Expand the capabilities of these highly portable and versatile instruments with our environmental chambers and sensors. Check the chart below for compatibility.



TARGAS-1 Portable Photosynthesis System shown with STP-2 Temperature Probe & CPY-5 Canopy Assimilation Chamber



CIRAS-4 Portable Photosynthesis System shown with SRC-2 Soil Respiration Chamber

## Chambers & Sensors

	CIRAS-4	CIRAS-3	TARGAS-1	EGM-5	CFLUX-1
SRC-2 Soil Respiration Chamber	●	●	●	●	
CPY-5 Canopy Assimilation Chamber	●	●	●	●	
HydraProbe II (Soil Moisture & Soil Temperature)			●	●	●
STP-2 Soil Temperature Probe			●	●	
Sample Injection Kit			●	●	

PP Systems has been in the soil and canopy CO<sub>2</sub> flux business since 1984. Trusted as the industry standard, our products are well-proven, tested, and widely published in scientific literature. The innovation and design built into our products are the result of many years of experience as well as working closely with experts in the field of soil and canopy flux measurement. When you compare technical specifications, performance, reliability, and reputation, you will not find better all-around, field-portable solutions for high-level research.

Accurate • Reliable • Field-Proven

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