

## Weatherproof, Dependable Autochamber for GHG Analyzers

- ✓ Long Term, Continuous Measurement
- ✓ Gaset, LGR & Picarro Compatible
- ✓ Flux Analysis Software
- ✓ Compact
- ✓ Robust Construction

The eosAC is a robust autochamber for measuring multi-species soil gas flux with Los Gatos Research (LGR) and Picarro gas analyzers. Up to twelve chambers can be connected to the analyzer via the eosMX or eosMX-P multiplexers. The eosAnalyze software enables processing of gas flux data on any Windows-based computer.

### Proven in the Field

Deployed all over the world, the eosAC has shown its strengths in a broad range of environments.

### Designed for Accuracy

The eosAC leads the way in autochamber design with:

- Slow raising/lowering that eliminates pressure effects
- Vent design that ensures steady atmospheric pressure without compromising samples through back diffusion
- Gas feed/return loop that promotes efficient mixing

### Convenient

Setup is remarkably simple, so you are up and running fast. Its compact size and space-saving lift mechanism help it avoid entanglement with things like undergrowth and vines. With a reach of 30 m / 100 ft for each chamber from the analyzer, you have a huge coverage area of about 2800 m<sup>2</sup> / 30,000 ft<sup>2</sup>.

### Everything You Need

Eosense partners with LGR and Picarro to offer complete solutions for your soil gas flux measurement: analyzer + chambers + multiplexer + software + accessories + support.



### Specification Highlights

Chamber volume	1969 cm <sup>3</sup> / 120 in <sup>3</sup>
Chamber surface area	182 cm <sup>2</sup> / 28 in <sup>2</sup>
Operating voltage	12 V DC
Operating power - in motion	< 8 W
Operating power - idle	< 1 W
Mass (approx)	5 kg / 11 lb
Reach (analyzer to chamber)	30 m / 100 ft (Gaset, ABB-LGR, Picarro)
Auxiliary sensor ports	3
Post-processing & visualization software	eosAnalyze-AC

# Standalone Soil $\text{CO}_2$ Flux Sensor

- ✓ Zero Spatial Constraints
- ✓ Truly Portable
- ✓ High Temporal Resolution
- ✓ Weather Proof

The eosFD is a revolutionary device that uses patented Forced Diffusion technology to measure soil  $\text{CO}_2$  flux directly. Featuring built-in data logging and impressively low power consumption, its standalone design delivers spatial freedom at any scale.

## Truly Portable

The eosFD's minimal power requirement is met by modest battery, solar, or wind systems. And it weighs only 1.6 kg, so you can get data anywhere.

## Zero Spatial Constraints

The eosFD's standalone design, with onboard  $\text{CO}_2$  analysis and data logging in one tough package, means you can deploy an array that spans meters to kilometers of spatial coverage.

## Direct Flux Measurement

Eliminate post-processing data to get your flux measurements - the eosFD reports high resolution flux directly.

## Data Your Way

Download your flux measurements from the eosFD's internal storage using the included eosLink-FD software, or stream it via an analog connection to existing site dataloggers for easy integration with other data.



## Specification Highlights

Dimensions (Ø x L)	10.2 x 25 cm / 4 x 9.8 in
Mass (approx)	1600 g / 3.5 lb
Operating temperature	20 to 40 C / -4 to 104 F
Operating power - avg	< 1.6 W
Operating voltage	12 V DC
Outputs (analog)	0 - 5 V DC
Data capacity (# meas.)	65,000
Flux range	0 to 20 $\mu\text{mol}/\text{m}^2/\text{s}$
Flux resolution	< 0.2 $\mu\text{mol}/\text{m}^2/\text{s}$