

Standalone Soil 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 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 go get data anywhere.

ZERO SPATIAL CONSTRAINTS

The eosFD's standalone design, with onboard 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 (\varnothing x L)	10.2 x 25 cm / 4 x 9.8 in
Mass (approx)	1600 g / 3.5 lb
Operating temperature	-20 to 50 C / -4 to 122 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 $\mu\text{mol}/\text{m}^2/\text{s}$

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