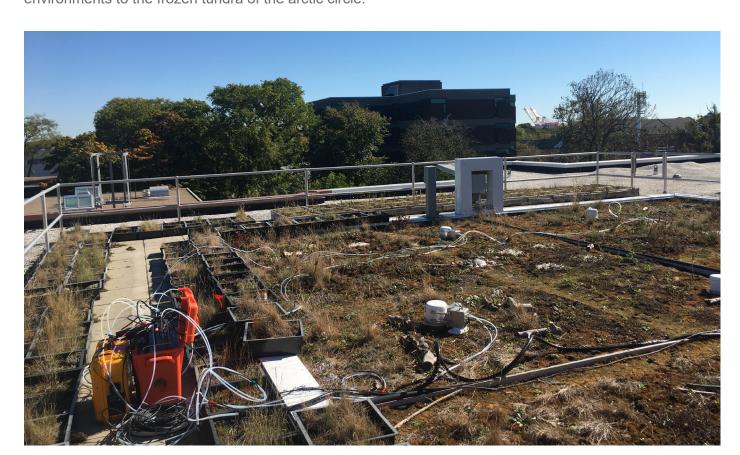




Enviro Technology has been working as the UK partner to Eosense since 2016. The Eosense range of soil gas flux measurement products perfectly complements our ever-popular range of Los Gatos Research greenhouse gas analysers.

As the photo below shows, the eosAC autochambers and eosMX-P recirculating multiplexer are fully compatible with LGR gas analysers. The combination of these systems provides a robust and low-power solution for monitoring greenhouse gas fluxes in a variety of situations, from green roofs in urban environments to the frozen tundra of the arctic circle.



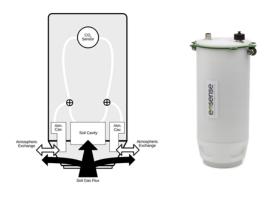
The eosAC chambers themselves are rugged, weatherproof, and suitable for long-term unattended deployment. Eosense's patented Forced Diffusion technology allows the chambers to measure gas flux rates across a special semi-permeable membrane. Peripheral soil moisture and temperature sensors provide additional data to allow fluxes to be calculated accurately and easily using the

eosAC chambers are well proven in the field, and were used in a paper that was recently published in Nature:

provided eosAnalyze software.

http://www.eosense.com/science/case-studies/case-study-eosac-rainforest/

For those who want to measure  $CO_2$  fluxes accurately and reliably, without the complexity and expense of a full LGR gas analyser + Eosense multiplexer and chamber system, Eosense also offer the standalone eosFD  $CO_2$  flux sensor.



The eosFD implements Forced Diffusion technology in a small, weatherproof package which consumes an average of less than 1 watt of power. This makes the eosFD suitable for running from a solar panel, even in locations with minimal sun intensity. The small size, weather-proofing, and internal data logging also make the eosFD suitable for long-term monitoring of fluxes in harsh and inaccessible locations, and because it is a low-cost instrument, saturation monitoring of a large number of plots is more accessible than ever.

The eosFD has even been used to monitor fluxes from tree stems, and has also been floated on the surface of a lake to measure CO<sub>2</sub> exchange.

Read more about the lake  ${\rm CO}_2$  flux case study here: http://www.eosense.com/blog/lake-co2-flux-estimates/



For researchers investigating carbon cycling in bodies of water, Eosense also offer a compact CO<sub>2</sub> concentration probe that is waterproof to a depth of 3 metres, the eosGP.

The eosGP uses a dual-channel NDIR detector to measure the concentration of  $\mathrm{CO}_2$  that diffuses from the water across an internal membrane. A low power consumption of less than 1 watt, and the ability to log data either to a data logger or directly to a computer using the Eosense software, makes the eosGP suitable for a wide variety of applications. It can easily be integrated into existing systems, or run as a standalone device.

Read about how eosGPs were used to monitor CO<sub>2</sub> concentrations in polygonal ponds in Siberia here: http://www.eosense.com/blog/carbon-monitoring-polygonal-ponds/

More information can be found on the soil Gas Flux Measurement pages of our website: https://www.et.co.uk/products/scientific-research-instrumentation/soil-gas-flux-measurement/

To enquire about any of the Eosense products within the UK contact our specialist today at: