

Isotope Analyzer



Description

LGR's isotope analyzers can be used everywhere. These Analyzers use LGR's Off-axis ICOS technology, a fourth-generation cavity enhanced absorption technique. Off-axis ICOS has many advantages over conventional Cavity Ringdown Spectroscopy (CRDS) techniques such as being alignment insensitive, having a much shorter measurement time (yielding a faster data rate), and not requiring expensive and power consuming auxiliary components. The Analyzer includes an internal computer that can store data practically indefinitely on its internal hard drive (for applications requiring unattended longer term operation), and send real-time data to a data logger through its analog and digital (RS232) outputs.



Isotope Analyzers

- ✓ Carbon Dioxide Isotope Analyzer
- ✓ Carbon Dioxide Isotope Analyzer – Elevated CO₂
- ✓ Deep-Water Gas Analyzers
- ✓ Dissolved Gas Extraction Unit
- ✓ Isotopic N₂O Analyzer (site-specific $\delta^{15}\text{N}$, $\delta^{17}\text{O}$, $\delta^{18}\text{O}$ and N₂O)
- ✓ Isotopic Water Analyzer (Liquid+Vapor) – Enhanced Performance
- ✓ Liquid Water Isotope Analyzer – Enhanced Performance model
- ✓ Methane Carbon Isotope Analyzer (CH₄, $\delta^{13}\text{C}$)
- ✓ Water-Vapor Isotope Analyzer (H₂O, $\delta^2\text{H}$, $\delta^{17}\text{O}$, $\delta^{18}\text{O}$)
- ✓ Wine Isotope Analyzer ($\delta^2\text{H}$, $\delta^{18}\text{O}$, alcohol %)