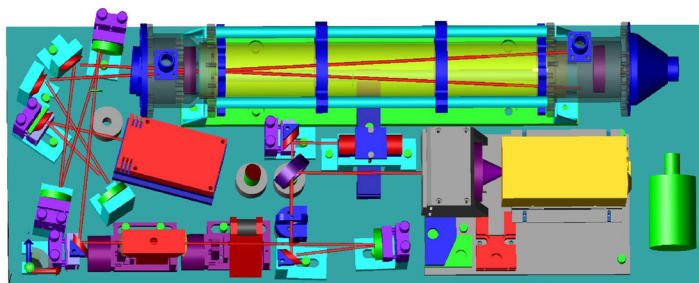




Single Laser Trace Gas Monitors: The Mini Monitor

Sensitive, rapid, highly specific and continuous measurements of atmospheric trace gases in ambient air.



APPLICATIONS

- Detection of a wide variety of atmospheric trace gases, such as: methane, nitrous oxide, nitric oxide, nitrogen dioxide, carbon monoxide, carbon dioxide, formaldehyde, formic acid, ethylene, acetylene, carbonyl sulfide, acrolein, ammonia and others.
- N₂O Monitors provide simultaneous monitoring of N₂O, water vapor and either CO, CO₂, or CH₄.
- Isotopic monitoring of CO₂, CH₄, and N₂O.
- Combustion monitoring and characterization.
- Isotopic monitoring for source/sink characterization.
- Eddy Covariance measurements for nitrous oxide and other trace gases.
- Fast response plume studies.
- Breath analysis.
- Air quality monitoring.
- Mobile measurements from ship, truck, and aircraft platforms.

ADVANTAGES

- Our smallest IR laser trace gas monitor with electronics and optics in a single compact unit.
- Absolute trace gas concentrations without calibration gases.
- Fast time response.
- Free from interferences by other atmospheric gases or water vapor.
- Turnkey and unattended operation.
- Ready to be deployed in field measurements and on moving platforms.
- Optical path length up to 76 meters.
- Data rates up to 1 to 10 Hz (depends on specific instrument and vacuum pump)



POPULAR INSTRUMENTS

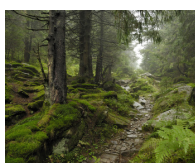
HIGHER PRECISION AND ACCURACY IS OBTAINABLE WITH MID-INFRARED LASERS



OCS, CO₂, H₂O



NH₃



CO₂ Isotopes



N₂O, CO₂, CO, H₂O



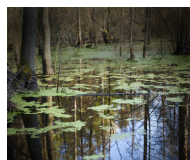
HCHO



C₂H₆, CH₄



CO



CH₄, N₂O, H₂O

MECHANICAL SPECIFICATIONS FOR SINGLE LASER TRACE GAS INSTRUMENT:

Dimensions: 440 mm x 660 mm x 6U (267mm) (W x D x H) (core instrument)

Weight: 35 kg (core instrument)

Electrical Power: 250 W, 120/240 V, 50/60 Hz (without pump)

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