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.

- $\text{N}_2\text{O}$ Monitors provide simultaneous monitoring of $\text{N}_2\text{O}$, water vapor and either CO, $\text{CO}_2$, or $\text{CH}_4$.

- Isotopic monitoring of $\text{CO}_2$, $\text{CH}_4$, and $\text{N}_2\text{O}$.

- 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)
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)

REFERENCES: