Dual Laser Trace Gas Monitor

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

**APPLICATIONS**

- Extremely sensitive 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.
- Combustion monitoring and characterization.
- Isotopic monitoring of CH$_4$ and N$_2$O for source/sink characterization.
- Eddy Covariance measurements.
- Fast response plume studies.
- Air quality monitoring.
- Mobile measurements from ship, truck, and Aircraft platforms.

**ADVANTAGES**

- 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.
- Two lasers allow simultaneous measurement of more species.
- Optical pathlength of either 76 meters or 210 meters.
MECHANICAL SPECIFICATIONS FOR DUAL LASER TRACE GAS MONITOR:
Dimensions: 560 mm x 770 mm x 640 mm (W x D x H)
Weight: 75 kg
Electrical Power: 250-500 W, 120/240 V, 55/60 Hz (without pump)

MULTIPASS CELL:
Choice of 76 meter standard cell (V=0.5 liters) or 210 meter “Super Cell” (V=2 liters)

REFERENCES: