Find natural gas leaks now

- ppb sensitivity
- battery powered
- 10-Hz data rate
- small size

Microportable Greenhouse Gas Analyzer (CH_4, CO_2, H_2O)

Features and Benefits

- 5.8 kg (12 lbs) w/ 2-hr battery
- Continuous measurements
- CH_4 reported at 10 Hz with ppb sensitivity
- Ideal for natural gas leak detection while walking; also, for chamber flux and soil studies, emissions monitoring
- Extremely wide range: ppb to %
- Extended Range option allows CH_4 measurements up to 1%
- Species specific - no cross interferences
- Operates directly on DC power
- Extremely fast time response (1 Hz with internal pump)
- Record data within 20 seconds after power on

LGR's new Microportable Gas Analyzer (μGGA) reports measurements of methane, carbon dioxide and water vapor simultaneously in a package that is compact, crushproof and travels anywhere. Small enough to be hand carried (even on-board aircraft) and requiring less than 35 watts, the μGGA offers opportunities to measure GHG and natural gas leaks anywhere. As with all LGR instruments, the μGGA is fast and simple to use which makes it ideal for natural gas leak detection and other field studies, compliance monitoring, air quality studies and soil flux studies, and wherever measurements of methane, carbon dioxide and water vapor are needed quickly and sensitively.

The μGGA begins recording data within 20 seconds after power on so you don't have to wait for a long warm-up period for the system to thermally equilibrate.

Furthermore, LGR's "Extended Range" option provides accurate methane measurements at levels up to 1% (without dilution) without reducing precision and sensitivity at typical ambient levels - a unique capability to LGR. Moreover, only LGR's analyzers provide reliable measurements at concentrations greater than 10,000 times ambient levels.

LGR's patented technology, a fourth-generation cavity enhanced absorption technique, has many advantages (simpler, easier to build and operate, more rugged) over older, conventional and delicate cavity ringdown spectroscopy (CRDS) and direct absorption techniques. As a result, LGR Analyzers provide higher performance and reliability at lower cost.

LGR Analyzers have an internal computer (Linux OS) that can store data practically indefinitely on a hard disk drive and send real time data to a iPhone, iPad, Android Tablet, or other WiFi device.

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Microportable Greenhouse Gas Analyzer (CH_4, CO_2, H_2O)

Performance Specifications

Precision (1σ, 0.1 sec / 1 sec / 10 sec):
- CH_4: 9 ppb / 3 ppb / 1 ppb
- CO_2: 6 ppm / 2 ppm / 1 ppm

Measurement Rates:
0.01 – 10 Hz (user selectable)

Measurement Ranges (meets all specifications):
- CH_4: 0.01 – 1000 ppm (standard range)
- CH_4: 0.01 – 10,000 ppm (extended range)
- CO_2: 100 ppm – 10%

Operational Range
(external calibration may be required):
- CH_4: 0 – 4%
- CO_2: 0 – 10%
- H_2O: 0 – 70000 ppm (0 – 98% relative humidity)

Sampling Conditions:
- Sample Temperature: -40 – 50 °C
- Operating Temperature: 0 – 50 °C
- Ambient Humidity: 0 - 98% RH non-condensing

Flow time response:
1 second (1/e)

Data Outputs:
- WiFi, USB

Power Requirements:
- 35 watts (10-30 VDC)

Dimensions:
- 13.4″× 11.6″× 6″

Weight:
- 12 pounds (5.4 kg) with internal 2-hour battery

Ordering Information

Model: 909-0050 (Analyzer includes control and analysis software)

Accessories (optional)

Gas sampling wand

Shoulder strap

Tablet - Android Nexus or Apple iPad

Tablet harness (for hands-free operation)

Larger internal battery - for 4 hour operation

Smart external battery charger

Shoulder strap

Mirror Cleaning Kit

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