

HIGH-ACCURACY CO₂ ANALYZER

ROBUST • LINEAR • LOW POWER • UNPARALLELED PERFORMANCE



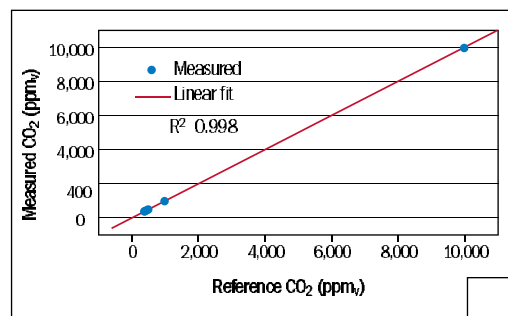
Insensitive to all other atmospheric gases, the High-Accuracy CO₂ Analyzer measures carbon dioxide in dry ambient air with unprecedented accuracy and precision (total measurement uncertainty of less than 1 part in 2000). All without the need for regular external calibration. The instrument can store data practically indefinitely on its internal hard disk drive and can send real-time data to a data logger through its analog, digital (RS232), and ethernet outputs allowing unattended long-term standalone operation.

Based on high-resolution direct-absorption spectroscopy (see lgrinc.com, Theory Section), the instrument offers negligible zero and span drift and a significantly reduced need for regular calibration with expensive reference gases (compared with conventional instruments). The High-Accuracy CO₂ Analyzer is designed for applications that require the performance of a reference laboratory without the need for regular calibration with expensive gas standards.



Accurate

Comparison of CO₂ recorded with our Analyzer with those from calibrated mixtures obtained from NIST/CMDL to illustrate the measurement accuracy over a wide dynamic range



These Analyzers are ideal for monitoring subtle changes in critical greenhouse gas concentrations.

Performance Specifications

Concentration Range

300–600 ppmv

Measurement Range

100 ppmv–1%

Response Time

25 seconds (internal pump)

Accuracy (30 sec measurement time)

Better than 0.05% of reading

Precision (30 sec measurement time)

Better than 0.05% of reading

Consumables

None

Outputs

Digital (RS232), Analog, Ethernet

Data Storage

Internal Hard Drive

Display

12.1" Color TFT

Sample Temperature

10–40 °C

Operating Temperature

15–35 °C

Ambient Humidity

<98% RH Non-Condensing

Warm-Up Time

5 minutes

Inlet/Outlet Fittings

1/4", 1/4" Swagelok®

Dimensions

10" H × 38" W × 14" D

Power Requirements

80 W; 115/230 VAC; 50/60 Hz
(including internal vacuum pump)

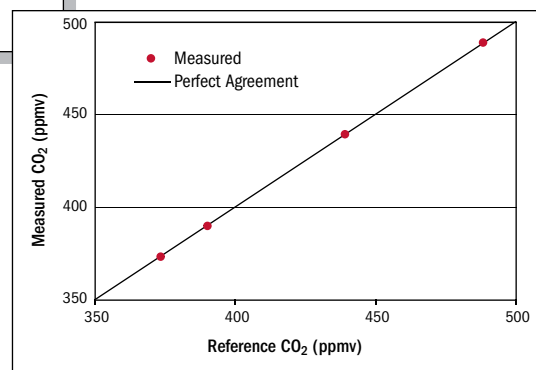
Weight

60 pounds (27 kg)
including embedded video monitor,
keyboard, mouse

Ordering Information

Benchmark Package

Model Number: 908-0002



Field-deployed
in some of
the harshest
environments
on earth, LGR
Analyzers are
designed to
work as hard
as you do.



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