

CERTIFICATION OF CALIBRATION



Date Of Calibration: 12-Feb-2025

No. 66916

Certificate Number:IN11274_15/37799

Issued by: QED Environmental Systems Inc.
Customer: LAUPER INSTRUMENTS AG

IRISWEG 16 B MURTEN, 3280 CH

Description:

Model: G100

Serial Number: IN11274

Results after adjustment:

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
0.00	0.0	0.067
2.500	2.5	0.067
5.000	4.9	0.085
10.00	10.1	0.14

All concentrations are molar.

CO₂ readings recorded at : 85.3 °F ± 2.70 °F

Barometric Pressure : 0975 mbar ± 3 mbar / 28.78 "Hg ± 00.09"Hg

Method of Test : The analyzer is calibrated in a temperature controlled chamber using reference gases. All analyzers are calibrated in accordance with our procedure ISP-29 using high purity grade gas.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 118 IGC Instance:118

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www.qedenv.com (800) 624-2026 info@qedenv.com

QED Environmental Systems Inc. 2355 Bishop Circle West, Dexter, MI 48130

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

As received gas readings, as recorded on 05-Feb-2025 :

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
0.00	0.0	0.067
2.500	2.6	0.067
5.000	5.0	0.085
10.00	10.0	0.14

All concentrations are molar.

As received gas readings recorded at : 73.0 °F ± 2.70 °F

As received barometric pressure recorded at : 29.26"Hg ± 00.09"Hg

Date of Issue : 13-Feb-2025

Approved by Signatory

A handwritten signature in black ink, appearing to read "Chris Fleenor".

Chris Fleenor

Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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