

CERTIFICATION OF CALIBRATION



No. 66916



Date Of Calibration: 24-May-2024

Certificate Number: G507254_2/35588

Issued by: QED Environmental Systems Inc.

Customer: ENITIAL PROJECTS LTD
ENTERPRISE DRIVE FOUR ASHES WOLVERHAMPTON, STAFFORDSH WV10 7DE
GB

Description:

Model: GA5000

Serial Number: G507254

Accredited Results:

Methane (CH₄)

Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.42
15.0	15.0	0.66
60.0	59.9	1.03

Carbon Dioxide (CO₂)

Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.8	0.71
39.9	40.1	1.19

Oxygen (O₂)

Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.6	21.7	0.25

Gas cylinders are traceable and details can be provided if requested.

CH₄, CO₂ readings recorded at: 32.2 °C/90.0 °F

Barometric Pressure: 0979 mbar/28.92 "Hg

O₂ readings recorded at: 22.4 °C/72.3 °F

Method of Test : The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

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

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.

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). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATION OF CALIBRATION



No. 66916



Date Of Calibration: 24-May-2024

Certificate Number: G507254_2/35588

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Pressure Transducers (inches of water column)					
Transducer	Certified (Low)	Reading (Low)	Certified (High)	Reading (High)	Accuracy
Relative	0"	0"	40"	40.51"	2.0"
	#Error	"	#Error	"	#Error

Barometer (mbar)	
Reference	Instrument Reading
0979 mbar / 28.92 "Hg	0979 mbar / 28.91 "Hg

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO/H ₂ COMP	500	496
H ₂ S	252	252

As received gas check readings:

Methane (CH ₄)	
Certified Gas (%)	Instrument Reading (%)
5.0	4.5
15.0	14.1
60.0	58.3

Carbon Dioxide (CO ₂)	
Certified Gas (%)	Instrument Reading (%)
5.0	5.4
15.0	15.9
39.9	41.3

Oxygen (O ₂)	
Certified Gas (%)	Instrument Reading (%)
20.9	19.2

As received Gas readings recorded at: 32.2 °C/90.0 °F

As received Barometric Pressure recorded at: 22.4 °C/72.3 °F

As received gas check readings are only recorded if the instrument is received in a working condition.
Where the instrument is received damaged no reading can be taken.

Date of Issue: 29 May 2024

Approved By Signatory

Linda Ostrowski

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). Certification only applies to results shown. This 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

Page 3 of 4 | LP015LNANIST-1.1

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

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