

CERTIFICATION OF CALIBRATION



Date Of Calibration: 07-Apr-2020

Certificate Number: G501839_2/25433

Issued by: QED Environmental Systems Ltd.

Customer: Enital Projects Limited
Enterprise Drive Four Ashes Wolverhampton
Staffordshire WV10 7DE UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G501839

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.41
15.0	14.8	0.64
50.0	49.4	0.94

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.9	0.70
50.0	50.0	1.1

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.1	21.2	0.31

The inwards assessment was carried out 02-Apr-2020.

The maximum adjustment is larger than the inwards assessment uncertainty.

Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 31.2 °C ± 2.5 °C

O₂ readings recorded at : 22.7 °C ± 2.5 °C

Barometric Pressure : 1020 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:108 IGC Instance:108

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

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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 UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
1020	1020

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	504	507
H ₂ S	262	262

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5	4.9
10	9.9

Date of Issue : 07-Apr-2020

Approved by Signatory

Dawn Hemings

Laboratory Inspection

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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SERVICE REPORT



Issued by: QED Environmental Systems Ltd.

Customer Name: Enitial Projects Limited

Model: GA5000

Date of Service: 07-Apr-2020

Part Number: GA5K0AC0-301

Service Engineer: Ricky Cottrill

Serial Number: G501839

Calibration Engineer: Suk Balrey

Verification / Approved By: Dawn Hemings

Signature:

Reason for Return (inc. Customer Comments):

issue with oxygen channel may be result of faulty oxygen cell - advised by tim Wilson

Service Comments/Feedback:

Thank you for returning your gas analyser to the QED Service Centre for full service and calibration. We are pleased to inform you that the analyser was received and fully assessed by one of our experienced Service Engineers.

O2 Cell unstable - Replaced

Our extensive service was carried out, and any necessary components replaced. The gas analyser has successfully passed all of our rigorous testing and quality checks and has been calibrated using our bespoke, state of the art calibration facility.

For further information about how to get the best use from your instrument please visit our YouTube channel <http://www.youtube.com/GeotechTV> and on our Website <http://www.qedenv.com>

If you require any further assistance with your instrument please email our Technical Support Team at technical@qedenv.co.uk or call us on +44 (0) 333 800 0088 (Monday to Thursday 08.30 - 17.00 & Friday 08.30 - 15.30) UK time zone.

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Next Service Due: 07-Oct-2020

17025

Our ISO accreditation for our customised auto-calibration facilities

5

Number of days we aim to complete your service within

50

Number of checks instruments are subject to when serviced

65

Number of countries from which we service instruments /accessories each year

7,384

Number of calibrations completed in last 12 months

340

Minimum number of service instruments we process each month

25

Cost (in £) of fully insured analyser collection for our UK customers

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