

CERTIFICATION OF CALIBRATION



Date Of Calibration: 22-Jan-2020

Certificate Number: G505312_2/24870

Issued by: QED Environmental Systems Ltd.

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

Description: Gas Analyser

Model: GA5000

Serial Number: G505312

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.41
15.0	15.0	0.64
50.0	49.1	0.94

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.43
15.0	14.7	0.70
50.0	50.1	1.1

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.3	21.4	0.31

The inwards assessment was carried out 18-Jan-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 : 31.3 °C ± 2.5 °C

O₂ readings recorded at : 22.4 °C ± 2.5 °C

Barometric Pressure : 1028 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:107 IGC Instance:107

Page 1 of 2 | LP015GIUKAS-2.4

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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
1028	1028

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	504	512
H ₂ S	262	262

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5	4.9
10	10.1

Date of Issue : 27-Jan-2020

Approved by Signatory

Laura McBride

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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Page 2 of 2 | LP015GIUKAS-2.4

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SERVICE REPORT



Issued by: QED Environmental Systems Ltd.

Customer Name: Enitial Projects Limited

Model: GA5000

Part Number: GA5K0AC0-101

Serial Number: G505312

Date of Service: 27-Jan-2020

Service Engineer: Ricky Cottrill

Calibration Engineer: Suk Balrey

Verification / Approved By: Laura McBride

Signature:

Reason for Return (inc. Customer Comments):

Screen faulty - flickers on and off and also freezes

Service Comments/Feedback:

Thank you for returning your gas analyser to the Geotech 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.

Screen flickers & freezes- Reloaded S/W

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.geotechuk.com>

We have replaced the battery because it is over 2 years old. This is in accordance to the battery cell manufacturer's recommendation.

The CO & H2S electrochemical sensor has been replaced due it being over 2 years old in accordance with the manufacturer's recommendations, and also as a proactive measure based on our experience of the typical lifetime of this type of sensor.

If you require any further assistance with your instrument please email our Technical Support Team at technical@geotech.co.uk or call us on +44 1926 338111 (Monday to Thursday 08.30 - 17.00 & Friday 08.30 - 15.30) UK time zone.

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Next Service Due: 27-Jul-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

LP022-11 Page 1 of 1
Cost (in £) of fully insured analyser collection for our UK customers

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SERVICE REPORT



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17025

Our ISO accreditation
for our customised
auto-calibration facilities

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Number of days we
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Number of checks
instruments are subject
to when serviced

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

7,384

Number of calibrations
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12 months

340

Minimum number
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25

Cost (in £) of fully insured
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