

CALIBRATION CERTIFICATE

ISSUED BY: ENVIRONMENTAL MEASUREMENTS LAB.
DATE OF ISSUE : 8 DEC 2019
CERTIFICATE No.: ENV 3079



ARAB BRITISH DYNAMICS

P.O. BOX: Sakr factory No. (3) - Egypt. Post Code: 11361
Tel. 22689023 – 22689024 Fax: 22688726

Page 1 of 2 pages

Approved Signatory

Signature *Ghada Horro*

Name Awad Mohamed

Title T.M.

REFERENCE: 02

CUSTOMER & ADDRESS: الشركة الدولية للخدمات البيئية
الجوامدية

FAX: -----

DATE OF RECEIPT: 1/ 12 /2019

CALIBRATED DATE: 1/ 12/ 2019

DUE DATE: -----

LOCATION: In lab. ☒ On Site ☐

DESCRIPTION : GAS ANALYZER (NO)

RANGE : 0-4000 PPM

MANUFACTURER : ECOM

MODEL : J2KN Basis

ACCURECY : $\pm 5\%$

SERIAL NO. : 11019-P

ENVIRONMENTAL CONDITION :

TEMPERATURE: 22.6 °C

HUMIDITY : 53.3 %

BASIS OF TEST:

The instrument has been calibrated by using multi gas dilution system (serial no.: 2689)
traceable to SI UNITS & according to EPA method (EPA-454 / B-17-001)

M. Fikry
Calibrated By: Mohammed Fikry

This certificate is issued in accordance with the requirements of the Accreditation bodies and ISO 17025 requirements. It provides tractability of measurement to recognized international standards, and to units of measurement realized at the National Physical Laboratory or other recognized international standards laboratories. This certificate may not be reproduced other in full, except with the prior written approval of the issuing laboratory.

CALIBRATION CERTIFICATE

CERTIFICATE No. ENV 3079

Page 2 of 2 Pages

Ghada Komal



Calibration results

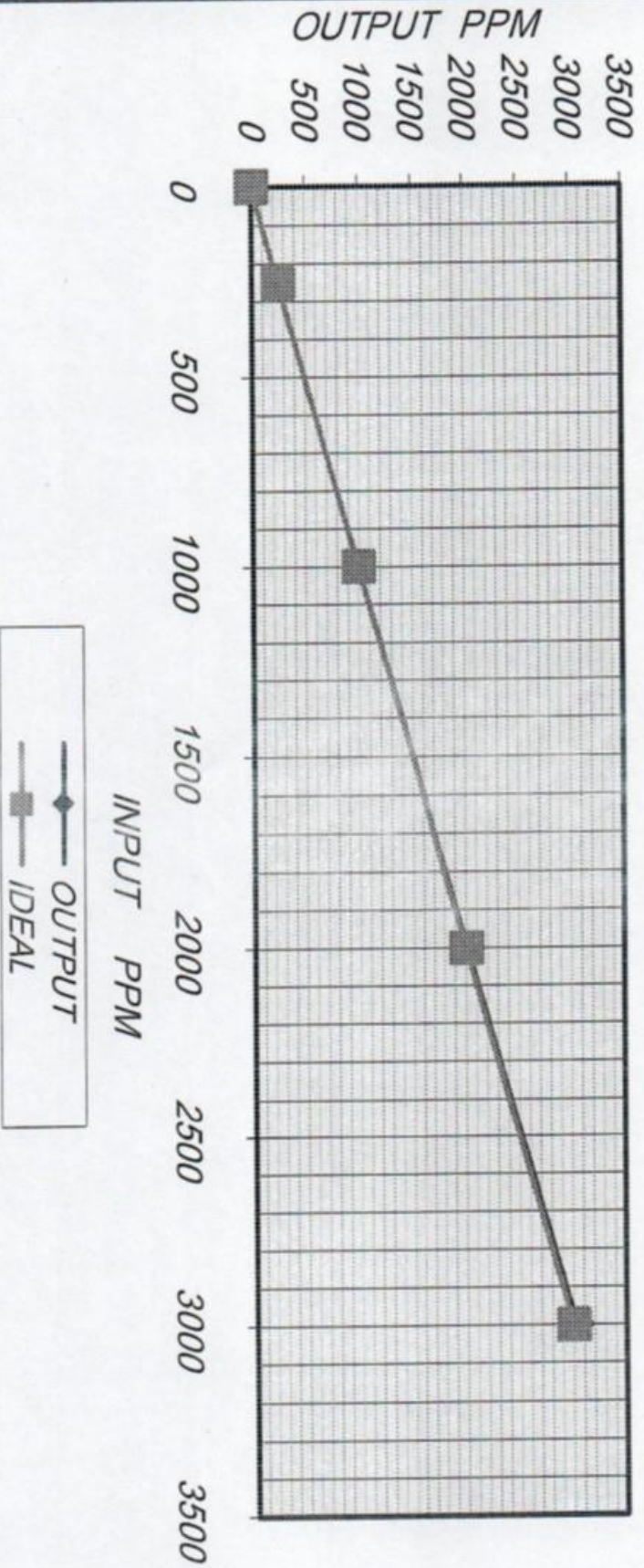
Applied values NO PPM	Reading values NO PPM	Error NO PPM
0	0	0
250	248	-2
1000	1000	0
2000	2010	10
3000	3028	28

The calculated uncertainty = $\pm 2.310 \%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2 providing a level of approximately 95 %



CALIBRATION CHART ENV3079(NO)



CALIBRATION CERTIFICATE

ISSUED BY: ENVIRONMENTAL MEASUREMENTS LAB.
DATE OF ISSUE : 8 DEC 2019
CERTIFICATE No.: ENV 3079



ARAB BRITISH DYNAMICS

P.O. BOX: Sakr factory No. (3) - Egypt. Post Code: 11361
Tel. 22689023 – 22689024 Fax: 22688726

Page 1 of 2 pages

Approved Signatory

Signature *Ghada Komel*

Name Awad Mohamed

Title T.M.

REFERENCE: 02

CUSTOMER & ADDRESS: الشركة الدولية للخدمات البيئية
الحوامدية

FAX: -----

DATE OF RECEIPT: 1/ 12 /2019

CALIBRATED DATE: 1/ 12/ 2019

DUE DATE: -----

LOCATION: In lab. ☒ On Site ☐

DESCRIPTION : GAS ANALYZER (SO₂)

RANGE : 0-4000 PPM

MANUFACTURER : ECOM

MODEL : J2KN Basis

ACCURECY : $\pm 5\%$

SERIAL NO. : 11019-P

ENVIRONMENTAL CONDITION :

TEMPERATURE: 22.6 °C

HUMIDITY : 53.3 %

BASIS OF TEST:

The instrument has been calibrated by using multi gas dilution system (serial no.: 2689)
traceable to SI UNITS & according to EPA method (EPA-454 / B-17-001)

M. Fikry
Calibrated By: Mohammed Fikry

This certificate is issued in accordance with the requirements of the Accreditation bodies and ISO 17025 requirements. It provides tractability of measurement to recognized international standards, and to units of measurement realized at the National Physical Laboratory or other recognized international standards laboratories. This certificate may not be reproduced other in full, except with the prior written approval of the issuing laboratory.

CALIBRATION CERTIFICATE

CERTIFICATE No. ENV 3079

Page 2 of 2 Pages

Ghada Kamal



Calibration results

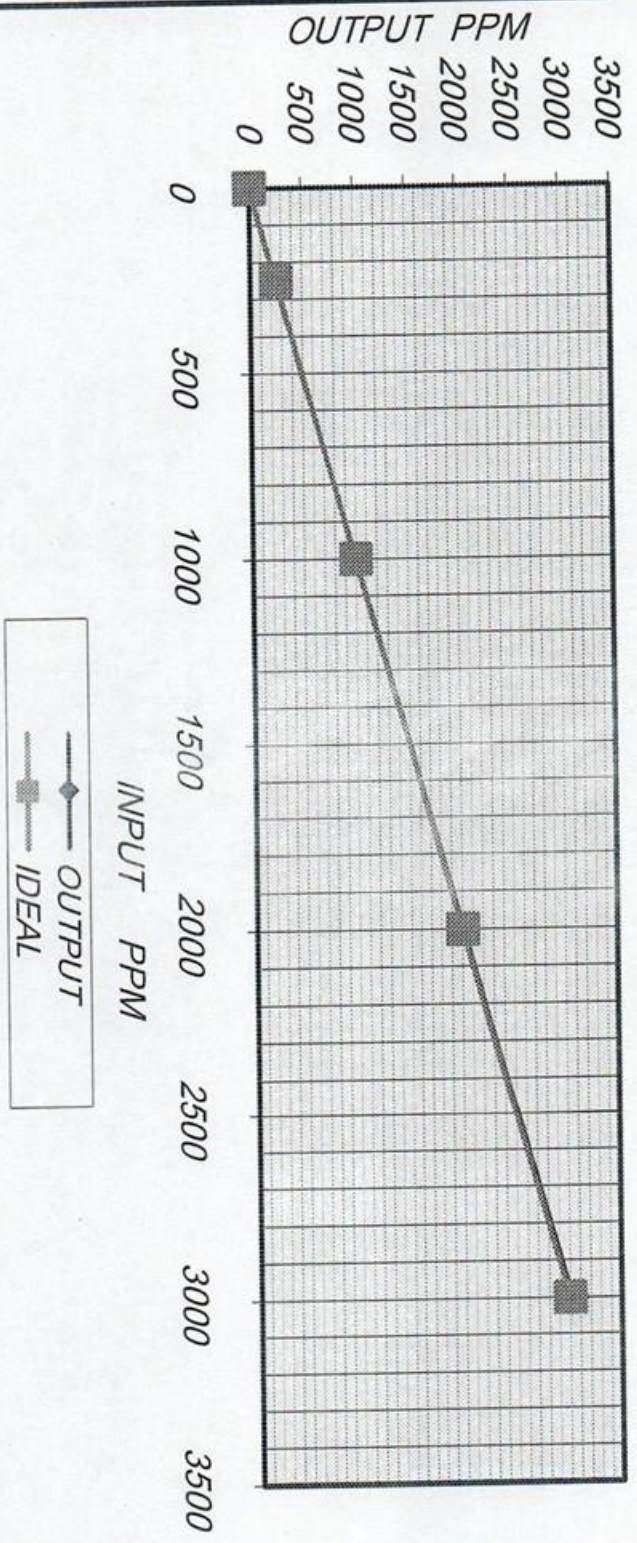
Applied values SO ₂ PPM	Reading values SO ₂ PPM	Error SO ₂ PPM
0	0	0
250	246	-4
1000	1000	0
2000	2006	6
3000	3017	17

The calculated uncertainty = $\pm 2.310 \%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2 providing a level of approximately 95 %



CALIBRATION CHART ENV3079(SO₂)



CALIBRATION CERTIFICATE

ISSUED BY: ENVIRONMENTAL MEASUREMENTS LAB.
DATE OF ISSUE : 8 DEC 2019
CERTIFICATE No.: ENV 3079



ARAB BRITISH DYNAMICS

P.O. BOX: Sakr factory No. (3) - Egypt. Post Code: 11361
Tel. 22689023 – 22689024 Fax: 22688726

Page 1 of 2 pages

Approved Signatory

Signature *Ghada Korneel*

Name Awad Mohamed

Title T.M.

REFERENCE: 02

CUSTOMER & ADDRESS: الشركة الدولية للخدمات البيئية
الحوامدية

FAX: -----

DATE OF RECEIPT: 1/ 12 /2019

CALIBRATED DATE: 1/ 12/ 2019

DUE DATE: -----

LOCATION: In lab. ☒ On Site ☐

DESCRIPTION : GAS ANALYZER (CO)

RANGE : 0-4000 PPM

MANUFACTURER : ECOM

MODEL : J2KN Basis

ACCURECY : $\pm 5 \%$

SERIAL NO. : 11019-P

ENVIRONMENTAL CONDITION :

TEMPERATURE: 22.6 °C

HUMIDITY : 53.3 %

BASIS OF TEST:

The instrument has been calibrated by using multi gas dilution system (serial no.: 2689)
traceable to SI UNITS & according to EPA method (EPA-454 / B-17-001)

M. Fikry
Calibrated By: Mohammed Fikry

This certificate is issued in accordance with the requirements of the Accreditation bodies and ISO 17025 requirements. It provides tractability of measurement to recognized international standards, and to units of measurement realized at the National Physical Laboratory or other recognized international standards laboratories. This certificate may not be reproduced other in full, except with the prior written approval of the issuing laboratory.

CALIBRATION CERTIFICATE

CERTIFICATE No. ENV 3079

Page 2 of 2 Pages

Ghada Kamal



Calibration results

Applied values CO PPM	Reading values CO PPM	Error CO PPM
0	0	0
250	255	5
1000	1000	0
2000	2015	15
3000	3020	20

The calculated uncertainty = $\pm 2.000 \%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2 providing a level of approximately 95 %



CALIBRATION CHART ENV3079(CO)

