

เอกสารสอบเทียบเครื่องมือที่ใช้ในการวิเคราะห์

Certificate No.: MC 2307702

Page 2 of 3

The Reference Standard Instrument :

| | | | | |
|---|------------------------|-------------------|-----------------|-----------------------|
| Description | Certificate No. | Serial No. | Due date | Traceable thru |
| Data Acquisition/Switch Unit | MC 2303173 | MY41010916 | 9 Mar 2024 | MCAL |
| With Thermocouple Type " T " ID. No.171 to 1719 | | | | |

Traceability :

The measurement standard traceable to the international system of units (SI) through certificate as mentioned above

1. Calibration Procedure:

This Instrument was calibration according to TLAS G-20 by comparison with calibrated thermocouple type T under no load condition. The Thermocouples were placed on nine points and located one thermocouple in each of the eight corners of the chamber and was away from the each wall of 5 cm to 10 cm. And placed the ninth thermocouple within 2.5 cm of the geometric center of the chamber.

Temperature Uniformity - the maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady state conditions. The reference sensor should preferably be located at the geometric center of the chamber.

Temperature Stability - one-half of the greatest maximum difference of measured temperatures at any one sensor.

Overall Variation - The Difference of the maximum and minimum measured temperatures throughout observation.

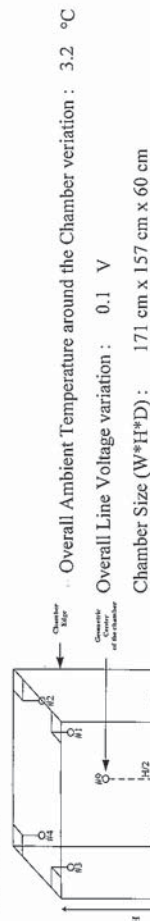


Figure 1 : Sensor Installation Location

Checked by : *Thanagorn*

Certificate of Calibration

TEMPERATURE
CONTROLLER ENCLOSURES



Certificate No.: MC 2307702

Page 1 of 3

Customer : Water Analysis Center Co., Ltd.
1/94 Moo 5, T.Kantham, A.U.-Thai, Ayuthaya 13210.

Reference Job No. : 23-1577 **Received Date** : 11 July 2023

Description : Refrigerator

Manufacturer : SANDEN INTERCOOL **Model** : SEC-1500SBD

Serial No. : SEC1500201A-0708-00304 **ID. No.** : WWL0038

Marking : Additionally for the purpose of identification by this laboratory a label marked with this certificate number (MC 2307702) has been attached to the case.

Method : In-House calibration procedure MWI-T-033 this method is reference to

TLAS G-20 "Temperature Controlled Enclosures".

Location of Calibration : Water Analysis Center Co., Ltd. ; Laboratory.

Environmental Conditions : Ambient Temperature : (25.3 to 25.9) °C

Relative Humidity : (65.2 to 67.9) %

Date of Calibration : 11 July 2023 **Date of Issue** : 12 July 2023

| | |
|--|---|
| Checked by : <i>Thanagorn</i> | Approved by : <i>Aittipong</i> |
| Thanagorn Limchaicharoen (Calibration Supervisor) | Aittipong Kanjanawasit (Technical Manager) |

The uncertainties are for a confidence probability of approximately 95%

This certificate is issued in accordance with the conditions of accreditation granted by the National Standardization Council of Thailand-Office of the National Standardization Council that has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the corresponding national standards laboratory. This certificate may not be reproduced other than in full except with the prior written approval of Master Calibration Co., Ltd.

Certificate No.: MC 2307702

Page 3 of 3

2. Result of calibration :

Temperature Measurement Accuracy Test

| Indicating Temperature (°C) | Measured Temperature (°C) at Spread Locations | | | | | | | | Uncertainty (±°C) |
|-----------------------------|---|-----|-----|-----|-----|-----|-----|-----|-------------------|
| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | Ref. #9 |
| 2.5 | 4.4 | 4.2 | 4.2 | 4.2 | 4.0 | 3.9 | 4.1 | 4.0 | 3.8 |
| | | | | | | | | | 0.86 |

Chamber Characterization Result

| Controller Temperature (°C) | Indicating Temperature (°C) | Temperature Stability (±°C) | Temperature Uniformity (°C) | Overall Variation (°C) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|
| 2.0 | 2.5 | 1.50 | 1.01 | 3.3 |

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 %.

This certificate will certify of the calibrated equipment only.

End of Certificate

Checked by: *Thanyan*

[MCF-Q-077 ; Rev.6 ; Date : 22/04/2021]



THAI HEART CALIBRATION CO., LTD.
102/11 Moo 5, Phraek Sai, Bangna Subdistrict, Bangkok 10700
Tel. 0-2394-9109, 0-2394-9108, 0-2394-9107, 0-2394-9106
Fax 0-2394-9109, 0-2394-9108, 0-2394-9107, 0-2394-9106



CERTIFICATE OF CALIBRATION

Certificate No.: C0-1907007/23 Page 1 of total 2 pages

Customer
WATER ANALYSIS CENTER CO., LTD.
1/94 Moo 5, T.Kanham,
A.U-thai, Ayutthaya 13210

Equipment Conductivity Meter
Manufacturer EUTECH
Serial No. 2657889
Description -
Model CON 2700
ID No. WWL 0136

Environmental Conditions
Ambient Temperature: (20 ± 2) °C
Relative Humidity: (50 ± 10) %
Atmospheric Pressure: -

Calibration Location Jayhawks Laboratory (CL&GL)
Received Date 19 July 2023
Calibration Date 19 July 2023
Date of Issue 20 July 2023
Condition of Artifacts Used conditions but can be calibrated

Checked by *[Signature]* **Approved by** *[Signature]*

Act as Technical Manager

Representative of Managing Director

() (Krisyos K.) () (Sakda Y.)
() (Patiphan K.) (✓) (Onnapa P.)
() (Pongsak H.) () (Nitiphong K.)
() (Kanung C.) () (Nonthachai K.)
() (Pramong P.) () (Noppol P.)
() (Dr. Ekachai Puttitwong)

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FE-169

REV.02 02/24/21

Page 2 of total 2 pages

Reference Method:

- The calibration method used was CP-177 based on an in-house method.
- This certificate can be traceable to the national standards, which is realized the shown measurement units according to the International System of Units (SI Units).

Reference Standard :

| Material | Batch Value | Lot Number | Due Date | Traceability |
|--------------------------------|-------------------------------|------------|--------------|--------------|
| Conductivity Standard Solution | 147.8 $\mu\text{S}/\text{cm}$ | S220611005 | Dec. 6, 2023 | SCP Science |
| | 1.425 mS/cm | S220812006 | May 31, 2024 | |

Remark: This certificate is traceable to the International System of Unit (SI Unit) through:

- SCP Science.

Measurement Results: (Probe Serial No.: 93X219065)

| Conductivity Standard Solution | Measured Value | Correction | Uncertainty (±) |
|--------------------------------|----------------|--------------|-------------------|
| 147.8 μS/cm | 147.5 μS/cm | 0.3 μS/cm | 2.5 μS/cm |
| 1425 mS/cm | 1427 mS/cm | -0.002 mS/cm | 0.0051 mS/cm |

Note : Adjustment points: 147.8 μ S/cm 1.425mS/cm

The above reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2.00$, providing a level of confidence approximately 95% uncertainty

- End of Certificate -

This calibration certificate shall not be valid without the approval of the Thai Heart Calibration Co., Ltd.

FE-169

REV. 02/02/24/21

CERTIFICATE OF CALIBRATION

| | | | | |
|------------------|---------------|--------|------------|-------|
| Certificate No.: | C0-1808005/23 | Page 1 | of total 4 | pages |
|------------------|---------------|--------|------------|-------|

Customer WATER ANALYSIS CENTER CO., LTD.
1/94 Moo 5, T.Kanham,
A.U-thai, Ayuthaya 13210

| Equipment | pH Meter | |
|--------------|---|--------|
| Manufacturer | METTLER TOLEDO | Model |
| Serial No. | E327527211 | ID No. |
| Description | Range : 0 - 14 pH, Resolution : 0.01 pH | |

| Environmental Conditions | Ambient Temperature: (20 ± 2) °C |
|--------------------------|-------------------------------------|
| Relative Humidity: | (50 ± 10) % |
| Atmospheric Pressure: | - |

| | |
|----------------------|-----------------------------|
| Calibration Location | Jayhawks Laboratory (CL&GL) |
| Received Date | 18 August 2023 |
| Calibration Date | 18 August 2023 |
| Date of Issue | 21 August 2023 |

Condition of Artifacts

Checked by

Approved by _____

Act as Technical Manager

Representative of Managing Director

(Dr. Ekachai Puttitwong)

| | | | |
|-----|----------------|-----|-----------------|
| () | (Krisyosil K.) | () | (Sakda Y.) |
| () | (Patiphan K.) | (✓) | (Onnapa P.) |
| () | (Pongsak H.) | () | (Niriphong K.) |
| () | (Kanung C.) | () | (Nonthachai K.) |
| () | (Pramong P.) | () | (Noppol P.) |

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Certificate No.: C0-1808005/23

Page 2 of total 4 pages

Reference Method:

- The calibration method used was CP-178 based on an in-house method.
- This certificate can be traceable to the national standards, which is realized the shown measurement units according to the International System of Units (SI Units).

Reference Standard:

| Type | pH Value | Lot No. | Due Date | Traceability |
|----------------------|----------|---------|--------------|--------------|
| pH Standard Solution | 4.01 | 030822 | Feb. 9, 2024 | NIMT |
| | 7.01 | 300522 | Feb. 9, 2024 | |
| | 10.01 | 230822 | Feb. 7, 2024 | |

ภาคผนวก ข - 4

| Type | Model | Serial No. | Certificate No. | Due Date | Traceability |
|---------------------------------|-------------|-----------------------|-----------------|---------------|--------------|
| Documenting Process Calibrator | 754 | 2630521 | 10-2412001/22 | Dec. 23, 2023 | THC |
| Digital Thermometer with Sensor | 1523 / 5622 | 1709138 / 4605984-005 | 10-0806001/23 | Jun. 8, 2024 | |

Remark: This certificate is traceable to the International System of Unit (SI Unit) through:

- NIMT, National Institute of Metrology (Thailand).
- THC, Thai Heart Calibration Co., Ltd.

Measurement Results:

1. Function Simulated pH Meter

| Standard Applied (mV) | Nominal Value (pH) | UUC Reading | | Uncertainty (± mV) |
|--------------------------|-----------------------|-------------|--------|-----------------------|
| | | pH | mV | |
| 177.48 | 4.00 | 4.01 | 177.4 | 0.060 |
| 0.00 | 7.00 | 7.00 | 0.0 | 0.060 |
| -177.48 | 10.00 | 10.01 | -177.4 | 0.060 |

UUC : Unit Under Calibration

Note : Adjust Curve to simulate pH (4,7,10)

Certificate No.: C0-1808005/23

Page 3 of total 4 pages

Measurement Results (Cont.):

2. Calibration of pH Electrode (Serial No.: 3222623)

| pH Standard Solution (pH) | Measured Value | | Uncertainty (± pH) |
|------------------------------|----------------|--------|-----------------------|
| | (pH) | (mV) | |
| 4.01 | 4.01 | 180.0 | 0.013 |
| 7.01 | 7.00 | 4.0 | 0.013 |
| 10.01 | 10.01 | -172.0 | 0.013 |

Note : Adjust Curve to Buffer Solution pH (4,7,10)
Temperature stability of micro bath : $25 \pm 0.2^\circ\text{C}$

The above reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2.00$, providing a level of confidence approximately 95%.



THAI HEART CALIBRATION CO., LTD.
112/11 Moo 5, Phadessa - Mueang Samut Prakan 10380
Tel. 02-919-2162, 02-919-8355, 02-919-8396 Fax. 02-919-8507
E-mail : info@thc.co.th, sales@thc.co.th



Certificate No.: C0-1808005/23

Page 4 of total 4 pages

Reference Method:

- The calibration method used was CP-096 based on an in-house method.
- The temperature scale used was an ITS-90.
- This certificate can be traceable to the national standards, which is realized the shown measurement units according to the International System of Units (SI Units).

Reference Standard Instruments:

| Type | Model | Serial No. | Cert. No. | Due Date | Traceability |
|---------------------------------|-----------|------------|---------------|---------------|--------------|
| Thermometer Readout | 1529-R | B7C853 | 10-0911001/22 | Nov. 9, 2023 | THC |
| Platinum Resistance Thermometer | 5626 | 4854 | COA30047 | Oct. 22, 2023 | FLUKE |
| Liquid Bath | XORTS-40A | XO111019 | 10-2405001/23 | May 25, 2025 | THC |

Remark: This certificate is traceable to the International System of Unit (SI Unit) through:

- THC, Thai Heart Calibration Co., Ltd.
- FLUKE, Fluke Corporation, U.S.A.

Measurement Results:

(X) Without Adjustment

Dimension of probe : Diameter 4 mm. Sensor Type : RTD (PT100)

| Immersion Depth (mm.) | Standard Reading (°C) | UUC Reading (°C) | Correction (°C) | Uncertainty (± °C) |
|-----------------------|-----------------------|------------------|-----------------|--------------------|
| 120 | 22.00 | 22.2 | -0.20 | 0.065 |
| 120 | 25.00 | 25.2 | -0.20 | 0.065 |
| 120 | 28.00 | 28.2 | -0.20 | 0.065 |

UUC : Unit Under Calibration

The above reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor $k = 2.00$, providing a level of confidence approximately 95%.

- End of Certificate -

Calibrated by

Pongsak

REV.02 02/24/21

FE-169



AUTOMATION SERVICE CO., LTD.
CALIBRATION LABORATORY

SV 201003/2023

Cert. No. WAC-065
Page 1 of 2

CERTIFICATE OF CALIBRATION

Instrument : DO Meter
Model : DO-31P
Serial No. : 780065
Manufacturer : TOA-DKK
Measuring Range : 0.00 ~ 20.00 mg/l

Machine : -
Location : -

Customer : Water Analysis Center Co., Ltd.
1/94 Moo.5 T.Kanham, A.U.-Thai
Ayutthaya 13210 Thailand

Date Of Received : 05 / 01 / 2023
Date Of Calibration : 05 / 01 / 2023

Ambient Condition : Temperature 25 °C
Humidity 50 % RH

Calibrated By :

P. Yooyen
(Ms. Phanee Yooyen)
Technician

Approved By :

Prajit (for)
(Mr. Nipon Phungsomsak)
Technical Manager

Date Of Issue : 09 / 01 / 2023

This Certificate may not be reproduced other than in full, except with the prior written approval of the head of the industrial instruments calibration center.

Automation Service Co., Ltd. 929,929/1 Soi Patanakarn30, Patanakarn Rd., Suanluang, Bangkok 10250
Tel. 02-319-8984 ext. 721,725 | E-mail : info@automation.co.th, service@automation.co.th | www.automation.co.th



AUTOMATION SERVICE CO.,LTD.

CALIBRATION LABORATORY

Instrument : DO Meter
Model : DO-31P
Serial No. : 780065

Cert. No. WAC-065
Page 2 of 2

Calibrate Procedure

- ☐ This instrument was calibrated by comparison with standard solution (PH/ORP)
- ☐ This instrument was calibrated by comparison with scattering plate value (Turbidity)
- ☒ This instrument was calibrated by comparison with conductivity (Conductivity)
- ☒ This instrument was calibrated by comparison with Sodium sulfite anhydrous (DO)

Condition of this result of calibration

- 1). Reference Standard Solution

| Standard | Lot No | Batch | Cert. No. | Due Date |
|----------------------|--------------|-----------|-----------|-------------|
| Sodium Sulfite Power | 1.06657.0500 | K54224057 | - | 30 Sep 2023 |

- 2). Traceability This certification is traceable to
 - ☒ Merck KGaA 64271 Darmstadt
 - ☐ DKK Corporation

Result Of Calibration

| Standard Solution (mg/l) at 24.1°C | | Before Adjust | | After Adjust | |
|------------------------------------|------|---------------|--------|--------------|-------|
| Zero | Span | Indicator | Error | Indicator | Error |
| 0.00 | 8.25 | 0.05 | + 0.05 | 0.00 | - |
| | | 7.13 | - 1.12 | 8.25 | - |

DO Electrode No. OE270AA(5) S/N 111F0029

Calibrated By P. Yooyen
(Ms. Phancee Yooyen)
Technician



Master Calibration Co.,Ltd.
547 Soi Ratchadaniwot, Kwaeng Samsenok, Khet Huaykwang, Bangkok 10310
Tel : (02) 274 2978-9, (02) 2742987-8 Fax : (02) 274 2518, (02) 274 2989
Website : www.mastercalibration.com E-mail : calibrate@mastercalibration.com

Certificate of Calibration

TEMPERATURE
CONTROLLER ENCLOSURES



Certificate No.: MC 2303684

Page 1 of 3



Customer : Water Analysis Center Co., Ltd.
1/94 Moo 5, T.Kantiam, A.U-Thai, Ayuthaya 13210.

Reference Job No. : 23-0729 Received Date : 23 March 2023
Description : Oven
Manufacturer : Memmert Model : UF260
Serial No. : B620.0814 ID. No. : WWL0212
Marking : Additionally for the purpose of identification by this laboratory a label marked with this certificate number (MC 2303684) has been attached to the case.
Method : In-House calibration procedure MWI-T-033 this method is reference to TLAS G-20 "Temperature Controlled Enclosures".
Location of Calibration : Water Analysis Center Co., Ltd. ; Laboratory.
Environmental Conditions : Ambient Temperature : (27.1 to 29.3) °C
Relative Humidity : (38.0 to 72.2) %
Date of Calibration : 23 March 2023 Date of Issue : 24 March 2023

Checked by : Thungorn Approved by : Aittipong
Thanagorn Limchaicharoen Aittipong Kaljanawasit
(Calibration Supervisor) (Technical Manager)

The uncertainties are for a confidence probability of approximately 95%

This certificate is issued in accordance with the conditions of accreditation granted by the National Standardization Council of Thailand-Office of the National Standardization Council that has assessed the measurement capability of the laboratory and its traceability to recognized national standards and to the units of measurement realized at the laboratory.

Certificate No.: MC 2303684

Page 2 of 3

The Reference Standard :

| Description | Certificate No. | Serial No. | Due date |
|--|-----------------|------------|--------------|
| Data Acquisition/Switch Unit | MC 2303173 | MY41010916 | 9 March 2024 |
| With Thermocouple Type " T " ID. No.17/1 to 17/9 | | | |

This certificate is traceable to the international system of units maintained at:

- Master Calibration Co., Ltd.

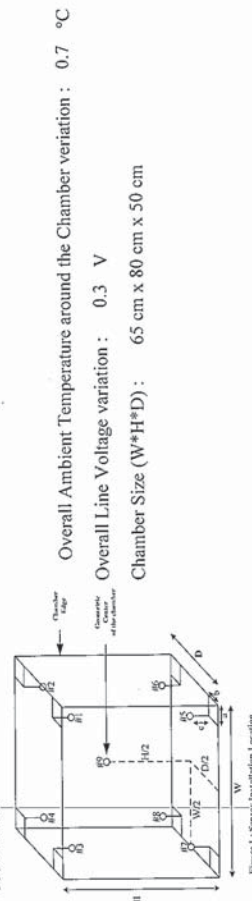
1. Calibration Procedure:

This Instrument was calibration according to TLAS G-20 by comparison with calibrated thermocouple type T under no load condition. The Thermocouples were placed on nine points and located one thermocouple in each of the eight corners of the chamber and was away from the each wall of 5 cm to 10 cm. And placed the ninth thermocouple within 2.5 cm of the geometric center of the chamber.

Temperature Uniformity - the maximum difference of measured temperatures at any sensors and the measured temperature at the reference location which are observed at the same time or at as close an observation time as possible to determine the temperature pattern or homogeneity within the chamber under steady state conditions. The reference sensor should preferably be located at the geometric center of the chamber.

Temperature Stability - one-half of the greatest maximum difference of measured temperatures at any one sensor.

Overall Variation - The Difference of the maximum and minimum measured temperatures throughout observation.



Overall Ambient Temperature around the Chamber variation : 0.7 °C
Overall Line Voltage variation : 0.3 V
Chamber Size (W*H*D) : 65 cm x 80 cm x 50 cm

Figure 1: Sensor Installation Location

Certificate No.: MC 2303684

Page 3 of 3

2. Result of calibration :

Temperature Measurement Accuracy Test

| Indicating Temperature (°C) | Measured Temperature (°C) at Spread Locations | | | | | | | | | Uncertainty (±°C) |
|-----------------------------|---|-------|-------|-------|-------|-------|-------|-------|---------|-------------------|
| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | Ref. #9 | |
| 104 | 103.7 | 103.9 | 103.6 | 103.8 | 103.7 | 104.2 | 104.1 | 104.2 | 104.3 | 0.58 |
| 180 | 179.4 | 179.8 | 179.4 | 179.7 | 179.4 | 179.9 | 179.8 | 180.2 | 180.0 | 1.3 |

Chamber Characterization Result

| Controller Temperature (°C) | Indicating Temperature (°C) | Temperature Stability (±°C) | Temperature Uniformity (°C) | Overall Variation (°C) |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|
| 104 | 104 | 0.32 | 0.84 | 1.2 |
| 180 | 180 | 0.4 | 0.9 | 1.3 |

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 %.

This report will certify of the calibrated equipment only.

End of Certificate



Certificate of Calibration



Equipment: Balance
Model: BL 210S
Serial No. (or ID.): 15808131 (WWL 0022)
Manufacturer: Sartorius
Condition: In condition

Certificate No.: C01223710
Issued Date: 07 December 2022
Job No.: KSPR2215481
Page: 1 of 2

Customer: Water Analysis Center Co., Ltd.
1/94 Moo 5, Rojana Industrial Park, Rojana Road,
Tambol Kanham, Amphur U-Thai, Ayutthaya 13210 Thailand

Environment Condition: Temperature 25 °C ± 0.9 °C
Humidity 48 %RH ± 4.9 %RH

Calibration Place: Water Analysis Center Co., Ltd. (แหล่งเครื่องจักร)
1/94 Moo 5, Rojana Industrial Park, Rojana Road,
Tambol Kanham, Amphur U-Thai, Ayutthaya 13210 Thailand

Calibration By: Mr. Pradit Siriboot
Calibration Date: 07 December 2022
The Method used: In-house method, CAL-WI-47, based on UKAS Lab 14
Traceability: This certificate is traceable to the SI Units maintained by National Institute of Metrology (NIMT), Thailand through DKSH Technology Co., Ltd. Certificate No. C02221864

(Mr. Pradit Siriboot)
Person in charge

(Mr. Rungrod Jenkitrakulchai)
Authorized signatory

This certificate is issued in the units of measurement according to the International System of Units (SI). It provides traceability of measurement to International or national standard or other recognized national standard laboratories.
The measurement uncertainty stated is the expanded uncertainty which is obtained from the standard uncertainty multiplied by the coverage factor (k=2) to provide a level of confidence of approximately 95%. It is determined in accordance with the Guide to Expression of Uncertainty in Measurement (GUM).
These results may be affected by deviations from specified conditions. The results relate only to the items tested, calibrated or sampled. The report shall not be reproduced except in full without approval of DKSH Technology Limited.

บริษัท ดีเคเอส อีเซีย จำกัด
DKSH Technology Limited
2533 หมู่ 5 ถนนวิภาวดีรังสิต แขวงทุ่งพญาไท เขตจตุจักร กรุงเทพมหานคร 10260



Certificate No.: C01223710

Page: 2 of 2

Calibration Results:

Without Adjustment

Eccentric Error: Weight to be 1/3 or 1/2 of Maximum capacity, taken from the center of the pan as a zero reference.

| | Nominal Test Value | | | | |
|--|--------------------|--------|--------|---------|---------|
| | A | B | C | D | E |
| | - | 0.0001 | 0.0001 | -0.0002 | -0.0001 |

Repeatability: Determination of the standard deviation of weighing balance., Readability

0.0001 (g)

| Nominal test value (g) | Standard Deviation |
|------------------------|--------------------|
| 20 | 0.00007 |
| 200 | 0.00007 |

Error of Indication from nominal or conventional mass value., Readability

0.0001 (g)

| Nominal Value (g) | Conventional Mass (g) | Displayed Value (g) | Error of Indication (g) | Uncertainty (g) | k |
|-------------------|-----------------------|---------------------|-------------------------|-----------------|------|
| 1 | 1.00001 | 1.0000 | 0.0000 | 0.00012 | 2.08 |
| 2 | 2.00001 | 2.0000 | 0.0000 | 0.00012 | 2.08 |
| 5 | 5.00003 | 5.0000 | 0.0000 | 0.00012 | 2.07 |
| 10 | 10.00002 | 10.0000 | 0.0000 | 0.00013 | 2.07 |
| 20 | 20.00001 | 20.0000 | 0.0000 | 0.00013 | 2.06 |
| 50 | 50.00003 | 50.0000 | 0.0000 | 0.00014 | 2.04 |
| 70 | 70.00004 | 70.0001 | 0.0001 | 0.00017 | 2.02 |
| 100 | 100.00002 | 100.0001 | 0.0001 | 0.00018 | 2.01 |
| 120 | 120.00003 | 120.0001 | 0.0001 | 0.00022 | 2.01 |
| 150 | 150.00005 | 150.0003 | 0.0003 | 0.00024 | 2.00 |
| 200 | 200.00006 | 200.0004 | 0.0003 | 0.00030 | 2.00 |

The End of Certificate

บริษัท ดีเคเอส อีเซีย จำกัด
DKSH Technology Limited
2533 หมู่ 5 ถนนวิภาวดีรังสิต แขวงทุ่งพญาไท เขตจตุจักร กรุงเทพมหานคร 10260