

Appendix D. Calibration Certificates

CALIBRATION CERTIFICATE

Date: September 28th, 2022

| | | |
|------------------------|---|-------------------------------------|
| Equipment Name | : | Digital Dust Indicator, Model LD-3B |
| Code No. | : | 080000-42 |
| Quantity | : | 1 unit |
| Serial No. | : | 296098 |
| Sensitivity | : | 0.001 mg/m ³ |
| Sensitivity Adjustment | : | 583CPM |
| Scale Setting | : | September 16th, 2022 |

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Tong Zhang



Tong Zhang

Overseas & New Business Group

Overseas Sales Department

TEST CERTIFICATE

Report No. 22-1673

CUSTOMER : INNOTECH INSTRUMENTATION CO.,LTD.

 SIBATA SCIENTIFIC TECHNOLOGY LTD.

DATE 20/ September /2022

| | | |
|---|---|---|
| APPROVE BY | VERIFIED BY | ISSUED BY |
|  |  |  |

| | |
|------------------|--------------------------|
| PRODUCT NAME | : Digital Dust Indicator |
| MODEL NUMBER | : LD-3B |
| SERIAL NUMBER | : 296098 |
| CALIBRATION DATE | : 16-September-2022 |

| Testing Category | Judging Standard | Judgment | | | Inspection chart | |
|------------------------------|--|-------------------|----------------------------|------------|--------------------|----------|
| | | Reading of Master | Reading of this Instrument | Correction | | |
| Function Test | Switch, Display, Wiring will normally function | OK | | | Reference Value(S) | |
| Sensitivity Calibration | Count is $\pm 2\%$ accurate to the master by the standard calibration particle | 801 CPM | 801 CPM | $\pm 0 \%$ | | |
| Dust Concentration Measuring | Count is $\pm 10\%$ accurate to the master under the 3 different concentration. | 2016 CPM | 2027 CPM | +0.5 % | 583 CPM | |
| | | 1001 CPM | 1021 CPM | +2.0 % | | |
| | | 483 CPM | 494 CPM | +2.3 % | | |
| Reproducibility | The difference between maximum and minimum value of sensitivity adjustment scale setting must be 5.0 % or less of maximum value. (The results of measurement of sensitivity adjustment in 5 times are within this range.) | OK | | | Temperature | Humidity |
| | | | | | 21 °C | 55 % |
| Synthetic Judgment | | Good | | | | |



專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB100113
Date of Issue : 28 October 2022
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 16H104233
Date of Received : 28 October 2022
Date of Calibration : 28 October 2022
Date of Next Calibration : 27 January 2023
Request No. : D-BB100113

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Test Parameter | Reference Method |
|------------------|---|
| pH value | APHA 21e 4500 H ⁺ |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure |
| Salinity | APHA 21e 2520 B |
| Dissolved oxygen | APHA 21e 4500 O |
| Turbidity | APHA 21e 2130 B |
| Conductivity | APHA 21e 2510 B |

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.04 | 0.04 | Satisfactory |
| 7.42 | 7.50 | 0.08 | Satisfactory |
| 10.01 | 10.18 | 0.17 | Satisfactory |

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Display Reading (°C) | Tolerance | Result |
|----------------------------------|----------------------|-----------|--------------|
| 10 | 10.0 | 0.0 | Satisfactory |
| 20 | 19.9 | -0.1 | Satisfactory |
| 40 | 39.9 | -0.1 | Satisfactory |

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 10.19 | 1.90 | Satisfactory |
| 20 | 20.33 | 1.65 | Satisfactory |
| 30 | 30.48 | 1.60 | Satisfactory |

Tolerance of Salinity should be less than ± 10.0 (%)

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AUTHORIZED
SIGNATORY:


LEE Chun-ning
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB100113
Date of Issue : 28 October 2022
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 7.65 | 8.00 | 0.35 | Satisfactory |
| 4.65 | 4.33 | -0.32 | Satisfactory |
| 2.18 | 2.00 | -0.18 | Satisfactory |
| 0.46 | 0.50 | 0.04 | Satisfactory |

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|--------------------------|-------------------------|-----------------|--------------|
| 0 | 0.10 | -- | Satisfactory |
| 10 | 9.86 | -1.4 | Satisfactory |
| 20 | 20.28 | 1.4 | Satisfactory |
| 100 | 100.59 | 0.6 | Satisfactory |
| 800 | 797.25 | -0.3 | Satisfactory |

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

| Expected Reading ($\mu\text{S/cm}$ at 25°C) | Display Reading | Tolerance (%) | Result |
|---|-----------------|-----------------|--------------|
| 146.9 | 138.6 | -5.65 | Satisfactory |
| 1412 | 1370.9 | -2.91 | Satisfactory |
| 12890 | 12684 | -1.6 | Satisfactory |
| 58670 | 57921 | -1.28 | Satisfactory |
| 111900 | 111663 | -0.21 | Satisfactory |

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB100114
Date of Issue : 28 October 2022
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 21K101468
Date of Received : 28 October 2022
Date of Calibration : 28 October 2022
Date of Next Calibration : 27 January 2023
Request No. : D-BB100114

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Test Parameter | Reference Method |
|------------------|---|
| pH value | APHA 21e 4500 H ⁺ |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure |
| Salinity | APHA 21e 2520 B |
| Dissolved oxygen | APHA 21e 4500 O |
| Turbidity | APHA 21e 2130 B |
| Conductivity | APHA 21e 2510 B |

PART D - CALIBRATION RESULT

(1) pH value

| Target (pH unit) | Display Reading (pH unit) | Tolerance | Result |
|------------------|---------------------------|-----------|--------------|
| 4.00 | 4.06 | 0.06 | Satisfactory |
| 7.42 | 7.48 | 0.06 | Satisfactory |
| 10.01 | 10.17 | 0.16 | Satisfactory |

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Display Reading (°C) | Tolerance | Result |
|----------------------------------|----------------------|-----------|--------------|
| 10 | 10.0 | 0.0 | Satisfactory |
| 20 | 19.9 | -0.1 | Satisfactory |
| 40 | 39.9 | -0.1 | Satisfactory |

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

| Expected Reading (g/L) | Display Reading (g/L) | Tolerance (%) | Result |
|------------------------|-----------------------|---------------|--------------|
| 10 | 10.17 | 1.70 | Satisfactory |
| 20 | 20.22 | 1.10 | Satisfactory |
| 30 | 30.46 | 1.53 | Satisfactory |

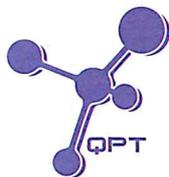
Tolerance of Salinity should be less than ± 10.0 (%)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB100114
Date of Issue : 28 October 2022
Page No. : 2 of 2

(4) Dissolved oxygen

| Expected Reading (mg/L) | Display Reading (mg/L) | Tolerance | Result |
|---------------------------|--------------------------|-----------|--------------|
| 7.65 | 8.00 | 0.35 | Satisfactory |
| 4.65 | 4.23 | -0.42 | Satisfactory |
| 2.18 | 2.01 | -0.17 | Satisfactory |
| 0.46 | 0.44 | -0.02 | Satisfactory |

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

| Expected Reading (NTU) | Display Reading (NTU) | Tolerance (%) | Result |
|--------------------------|-------------------------|-----------------|--------------|
| 0 | 0.09 | -- | Satisfactory |
| 10 | 9.88 | -1.2 | Satisfactory |
| 20 | 20.26 | 1.3 | Satisfactory |
| 100 | 101.77 | 1.8 | Satisfactory |
| 800 | 796.13 | -0.5 | Satisfactory |

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

| Expected Reading ($\mu\text{S/cm}$ at 25°C) | Display Reading | Tolerance (%) | Result |
|---|-----------------|-----------------|--------------|
| 146.9 | 137.2 | -6.60 | Satisfactory |
| 1412 | 1368.3 | -3.09 | Satisfactory |
| 12890 | 12579 | -2.41 | Satisfactory |
| 58670 | 56682 | -3.39 | Satisfactory |
| 111900 | 112202 | 0.27 | Satisfactory |

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
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