

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-BE080098

Date of Issue : 20 August 2025

Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,

Kowloon (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters

Manufacturer : YSI

Serial Number : 15M101091

Date of Received : 15 August 2025

Date of Calibration : 18 August 2025

Date of Next Calibration : 14 November 2025

Request No. : D-BE080098

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

pH value

Temperature

Dissolved oxygen

Conductivity

Salinity

Turbidity

Reference Method

APHA 21e 4500-H⁺ B

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure

APHA 23e 4500-O G (Membrane Electrode Method)

APHA 21e 2510 B

APHA 21e 2520 B

APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result
4.00	3.93	-0.07	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	9.89	-0.12	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance (°C)	Result
13.3	13.4	0.1	Satisfactory
24.6	24.6	0	Satisfactory
34.8	34.6	-0.2	Satisfactory

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

(3) Dissolved oxygen

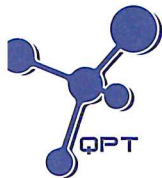
Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
7.41	7.59	0.18	Satisfactory
5.20	5.38	0.18	Satisfactory
3.91	3.98	0.07	Satisfactory
0.08	0.32	0.24	Satisfactory

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

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AUTHORIZED
SIGNATORY:

FUNG Yuen-ching
Laboratory Manager



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(4) Conductivity

Expected Reading ($\mu\text{S/cm}$ at 25°C)	Display Reading ($\mu\text{S/cm}$ at 25°C)	Tolerance (%)	Result
146.9	160.3	9.1	Satisfactory
1412	1412	0	Satisfactory
12890	12596	-2.3	Satisfactory
58670	58120	-0.9	Satisfactory
111900	111080	-0.7	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.15	1.50	Satisfactory
20	20.01	0.05	Satisfactory
30	30.36	1.20	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ^(a) (%)	Result
0	0.64	-	Satisfactory
10	9.75	-2.5	Satisfactory
20	20.06	0.3	Satisfactory
100	92.09	-7.9	Satisfactory
800	801.54	0.2	Satisfactory

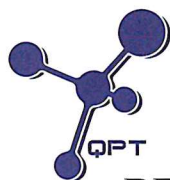
Tolerance of Turbidity should be less than ± 10.0 (%)

^(a) For 0 NTU, Display Reading should be less than 1 NTU

Remark(s)

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

--- END OF REPORT ---



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BE090186
Date of Issue : 26 September 2025
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,
Kowloon (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS (Multi Parameters)
Manufacturer : YSI
Serial Number : 22D100436
Date of Received : 19 September 2025
Date of Calibration : 25 September 2025
Date of Next Calibration : 24 December 2025
Request No. : D-BE090186

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Conductivity	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance (pH unit)	Result
4.00	4.00	0	Satisfactory
7.42	7.42	0	Satisfactory
10.01	10.00	-0.01	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance (°C)	Result
35.6	35.0	-0.6	Satisfactory
24.9	24.6	-0.3	Satisfactory
11.8	11.7	-0.1	Satisfactory

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

(3) Dissolved oxygen

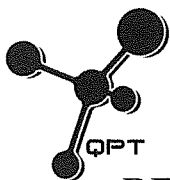
Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance (mg/L)	Result
7.71	7.89	0.18	Satisfactory
6.52	6.50	-0.02	Satisfactory
3.14	3.32	0.18	Satisfactory
0.02	0.08	0.06	Satisfactory

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

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AUTHORIZED
SIGNATORY:

FUNG Yuen-ching
Laboratory Manager



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(4) Conductivity

Expected Reading ($\mu\text{S}/\text{cm}$ at 25°C)	Display Reading ($\mu\text{S}/\text{cm}$ at 25°C)	Tolerance (%)	Result
146.9	160.1	9.0	Satisfactory
1412	1426	1.0	Satisfactory
12890	11741	-8.9	Satisfactory
58670	53841	-8.2	Satisfactory
111900	104478	-6.6	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.69	-3.10	Satisfactory
20	18.93	-5.35	Satisfactory
30	30.79	2.63	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ^(a) (%)	Result
0	0.36	-	Satisfactory
10	9.46	-5.4	Satisfactory
20	18.47	-7.7	Satisfactory
100	94.00	-6.0	Satisfactory
800	734.12	-8.2	Satisfactory

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

^(a) For 0 NTU, Display Reading should be less than 1 NTU

Remark(s):

1. The "Date of Next Calibration" is set in accordance with the best practices of QPT or relevant international standards.
2. The calibration results apply exclusively to the equipment as received.
3. This report verifies the equipment's performance by testing it with independent reference material and comparing the results against a calibrated secondary standard.
4. "Displayed Reading" refers to the value shown on the unit under calibration, irrespective of its internal precision or significant figures.
5. The "Tolerance Limit" represents the acceptance criteria used by Quality Pro Test-Consult Ltd. for similar equipment, as derived from relevant international standards.

--- END OF REPORT ---