

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

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD100073  
Date of Issue : 21 October 2024  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 15M101091  
Date of Received : 16 October 2024  
Date of Calibration : 21 October 2024  
Date of Next Calibration : 20 January 2025  
Request No. : D-BD100073

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
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 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.01	0.01	Satisfactory
7.42	7.43	0.01	Satisfactory
10.01	10.14	0.13	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
16.0	16.1	0.1	Satisfactory
25.5	25.2	-0.3	Satisfactory
40.0	39.6	-0.4	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  (°C)


#### (3) Salinity

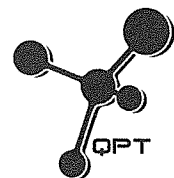
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.71	-2.9	Satisfactory
20	19.84	-0.8	Satisfactory
30	30.42	1.4	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

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Date of Issue : 21 October 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.41	7.77	0.36	Satisfactory
5.61	5.22	-0.39	Satisfactory
3.49	3.56	0.07	Satisfactory
0.56	0.29	-0.27	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup> ( % )	Result
0	0.02	--	Satisfactory
10	10.11	1.1	Satisfactory
20	19.85	-0.7	Satisfactory
100	103.25	3.3	Satisfactory
800	822.19	2.8	Satisfactory

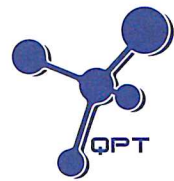
Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD090078  
Date of Issue : 02 October 2024  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 22C106561  
Date of Received : 26 September 2024  
Date of Calibration : 27 September 2024  
Date of Next Calibration : 26 December 2024  
Request No. : D-BD090078

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
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 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.03	0.03	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
17.0	15.6	-1.4	Satisfactory
28.0	26.2	-1.8	Satisfactory
32.5	30.7	-1.8	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

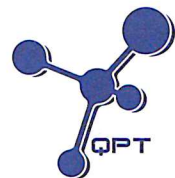
Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	10.11	1.10	Satisfactory
20	20.59	2.95	Satisfactory
30	31.25	4.17	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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Date of Issue : 02 October 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.37	7.35	-0.02	Satisfactory
5.56	5.49	-0.07	Satisfactory
2.30	2.58	0.28	Satisfactory
0.20	0.39	0.19	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

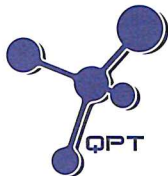
Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance ( % )	Result <sup>(a)</sup>
0	0.75	--	Satisfactory
10	10.92	9.2	Satisfactory
20	21.08	5.4	Satisfactory
100	102.32	2.3	Satisfactory
800	786.90	-1.6	Satisfactory

<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD100074  
Date of Issue : 21 October 2024  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 22D100436  
Date of Received : 17 October 2024  
Date of Calibration : 21 October 2024  
Date of Next Calibration : 20 January 2025  
Request No. : D-BD100074

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
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 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.59	0.17	Satisfactory
10.01	10.19	0.18	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
16.0	16.1	0.1	Satisfactory
25.5	25.0	-0.5	Satisfactory
40.0	39.6	-0.4	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.59	-4.1	Satisfactory
20	19.72	-1.4	Satisfactory
30	30.22	0.7	Satisfactory

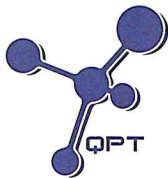
Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD100074

Date of Issue : 21 October 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.41	7.78	0.37	Satisfactory
5.61	5.21	-0.40	Satisfactory
3.49	3.54	0.05	Satisfactory
0.56	0.11	-0.45	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup> ( % )	Result
0	0.54	--	Satisfactory
10	9.68	-3.2	Satisfactory
20	18.75	-6.3	Satisfactory
100	91.88	-8.1	Satisfactory
800	736.64	-7.9	Satisfactory

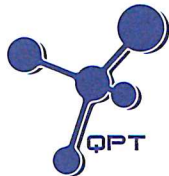
Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD080044  
Date of Issue : 16 August 2024  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited  
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 24G101659  
Date of Received : 15 August 2024  
Date of Calibration : 16 August 2024  
Date of Next Calibration : 16 November 2024  
Request No. : D-BD080044

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
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 23e 4500-O G (Membrane Electrode Method)
Oxidation-Reduction Potential	APHA 22e 2580 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	3.96	-0.04	Satisfactory
7.42	7.32	-0.10	Satisfactory
10.01	9.95	-0.06	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
18.0	17.8	-0.2	Satisfactory
26.0	25.2	-0.8	Satisfactory
32.0	31.0	-1.0	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

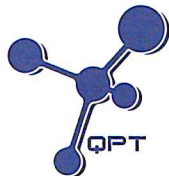
Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.75	-2.50	Satisfactory
20	19.76	-1.20	Satisfactory
30	29.92	-0.27	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD080044

Date of Issue : 16 August 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.09	8.17	0.08	Satisfactory
7.53	7.97	0.44	Satisfactory
6.52	6.55	0.03	Satisfactory
0.72	1.05	0.33	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Oxidation-Reduction Potential

Expected Reading	Display Reading	Tolerance	Result
229	225.4	-3.6	Satisfactory

Tolerance of Oxidation-Reduction Potential should be less than  $\pm 10.0$  ( mV )

### (6) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup> ( % )	Result
0	0.40	--	--
10	9.24	-7.6	Satisfactory
20	19.63	-1.9	Satisfactory
100	94.80	-5.2	Satisfactory
800	738.22	-7.7	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

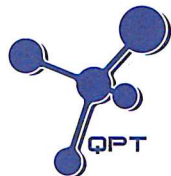
<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU

### Remark(s)

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## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD080045  
Date of Issue : 16 August 2024  
Page No. : 1 of 2

### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

### PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters  
Manufacturer : YSI  
Serial Number : 24G101660  
Date of Received : 15 August 2024  
Date of Calibration : 16 August 2024  
Date of Next Calibration : 16 November 2024  
Request No. : D-BD080045

### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> B
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 23e 4500-O G (Membrane Electrode Method)
Oxidation-Reduction Potential	APHA 22e 2580 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.05	0.05	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	10.00	-0.01	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  ( pH unit )

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
18.0	17.3	-0.7	Satisfactory
26.0	24.5	-1.5	Satisfactory
32.0	31.6	-0.4	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

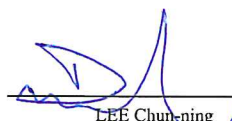
#### (3) Salinity

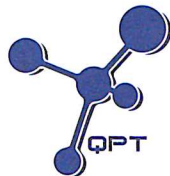
Expected Reading ( g/L )	Display Reading ( g/L )	Tolerance ( % )	Result
10	10.73	7.30	Satisfactory
20	21.86	9.30	Satisfactory
30	32.09	6.97	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  ( % )

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Test Report No. : R-BD080045

Date of Issue : 16 August 2024

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### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.09	8.18	0.09	Satisfactory
7.53	7.89	0.36	Satisfactory
6.52	6.27	-0.25	Satisfactory
1.92	1.57	-0.35	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

### (5) Oxidation-Reduction Potential

Expected Reading	Display Reading	Tolerance	Result
229	224.5	-4.5	Satisfactory

Tolerance of Oxidation-Reduction Potential should be less than  $\pm 10.0$  ( mV )

### (6) Turbidity

Expected Reading ( NTU )	Display Reading ( NTU )	Tolerance <sup>(a)</sup> ( % )	Result
0	0.59	--	--
10	10.27	2.7	Satisfactory
20	19.59	-2.1	Satisfactory
100	93.87	-6.1	Satisfactory
800	723.00	-9.6	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  ( % )

<sup>(a)</sup> For 0 NTU, Display Reading should be less than 1 NTU

### Remark(s)

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