

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/18/0007

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village  
 Date: 6-Mar-21 Next Due Date: 6-May-21 Operator: SK  
 Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

Ambient Condition			
Temperature, Ta (K)	<u>293.7</u>	Pressure, Pa (mmHg)	<u>762.9</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	<u>11-Jan-22</u>	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.6</u>	3.72	63.72	<u>10.2</u>	3.22
2	<u>11.3</u>	3.39	58.09	<u>7.7</u>	2.80
3	<u>8.5</u>	2.94	50.38	<u>6.0</u>	2.47
4	<u>5.3</u>	2.32	39.80	<u>3.4</u>	1.86
5	<u>3.1</u>	1.78	30.45	<u>1.8</u>	1.35

**By Linear Regression of Y on X**

Slope, mw = 0.0550 Intercept, bw = -0.3245  
 Correlation coefficient\* = 0.9983

\*If Correlation Coefficient < 0.990, check and recalibrate.

**Set Point Calculation**

From the TSP Field Calibration Curve, take Qstd = 43 CFM

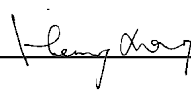
From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  4.09

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 6 March 2021

Checked by: Henry Leung Signature:  Date: 6 March 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/0007

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village  
 Date: 6-Mar-21 Next Due Date: 6-May-21 Operator: SK  
 Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	<u>293.7</u>	Pressure, Pa (mmHg)	<u>762.9</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	<u>11-Jan-22</u>				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.8</u>	3.75	64.18	<u>9.6</u>	3.13
2	<u>11.3</u>	3.39	58.09	<u>7.3</u>	2.73
3	<u>8.4</u>	2.92	50.09	<u>5.8</u>	2.43
4	<u>5.2</u>	2.30	39.42	<u>3.5</u>	1.89
5	<u>2.8</u>	1.69	28.94	<u>2.0</u>	1.43

### By Linear Regression of Y on X

Slope, mw = 0.0474 Intercept, bw = 0.0398  
 Correlation coefficient\* = 0.9980

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

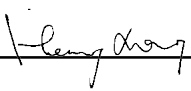
From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  4.23

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 6 March 2021

Checked by: Henry Leung Signature:  Date: 6 March 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/04/0005

Project No. KER 1 - Future Residential Development at Kerry Godown  
 Date: 1-Apr-21 Next Due Date: 1-Jun-21 Operator: SK  
 Equipment No.: A-01-04 Model No.: TE 5170 Serial No. 10595

Ambient Condition			
Temperature, Ta (K)	<u>294.9</u>	Pressure, Pa (mmHg)	<u>762</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	<u>11-Jan-22</u>				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.2</u>	3.66	62.61	<u>8.0</u>	2.85
2	<u>10.8</u>	3.31	56.64	<u>6.3</u>	2.53
3	<u>8.2</u>	2.88	49.36	<u>4.8</u>	2.21
4	<u>4.8</u>	2.21	37.78	<u>2.9</u>	1.71
5	<u>2.8</u>	1.68	28.86	<u>1.9</u>	1.39

### By Linear Regression of Y on X

Slope, mw = 0.0430 Intercept, bw = 0.1141  
 Correlation coefficient\* = 0.9983

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

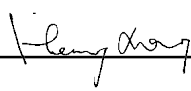
From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.80

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 1 April 2021

Checked by: Henry Leung Signature:  Date: 1 April 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/44/0006

Project No. KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)  
 Date: 1-Apr-21 Next Due Date: 1-Jun-21 Operator: SK  
 Equipment No.: A-01-44 Model No.: TE-5170 Serial No. 1316

Ambient Condition			
Temperature, Ta (K)	<u>294.9</u>	Pressure, Pa (mmHg)	<u>762</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	<u>11-Jan-22</u>				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.1</u>	3.64	62.37	<u>9.0</u>	3.02
2	<u>10.5</u>	3.26	55.85	<u>6.8</u>	2.62
3	<u>7.9</u>	2.83	48.45	<u>5.3</u>	2.32
4	<u>5.9</u>	2.44	41.88	<u>3.4</u>	1.86
5	<u>3.0</u>	1.74	29.88	<u>1.8</u>	1.35

### By Linear Regression of Y on X

Slope, mw = 0.0516 Intercept, bw = -0.2283  
 Correlation coefficient\* = 0.9968

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation


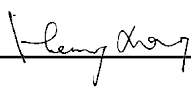
From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.92

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 1 April 2021  
 Checked by: Henry Leung Signature:  Date: 1 April 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/41/0005

Project No. KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)  
 Date: 1-Apr-21 Next Due Date: 1-Jun-21 Operator: SK  
 Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	<u>294.9</u>	Pressure, Pa (mmHg)	<u>762</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	<u>11-Jan-22</u>				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.2</u>	3.66	62.61	<u>7.5</u>	2.76
2	<u>10.8</u>	3.31	56.64	<u>6.0</u>	2.46
3	<u>7.8</u>	2.81	48.14	<u>4.6</u>	2.17
4	<u>5.4</u>	2.34	40.06	<u>3.5</u>	1.89
5	<u>2.6</u>	1.62	27.82	<u>2.0</u>	1.42

### By Linear Regression of Y on X

Slope, mw = 0.0375 Intercept, bw = 0.3728  
 Correlation coefficient\* = 0.9984

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation


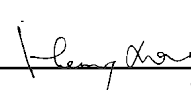
From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  3.89

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 1 April 2021  
 Checked by: Henry Leung Signature:  Date: 1 April 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/18/0008

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village  
 Date: 6-May-21 Next Due Date: 6-Jul-21 Operator: SK  
 Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

Ambient Condition			
Temperature, Ta (K)	<b>298.2</b>	Pressure, Pa (mmHg)	<b>761.4</b>

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	11-Jan-22	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<b>13.4</b>	3.66	62.71	<b>10.3</b>	3.21
2	<b>11.3</b>	3.36	57.59	<b>7.8</b>	2.79
3	<b>8.4</b>	2.90	49.66	<b>6.1</b>	2.47
4	<b>5.4</b>	2.33	39.83	<b>3.3</b>	1.82
5	<b>3.1</b>	1.76	30.19	<b>1.8</b>	1.34


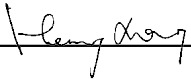
**By Linear Regression of Y on X**

Slope, mw = 0.0567 Intercept, bw = -0.3951  
 Correlation coefficient\* = 0.9970

\*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation	
From the TSP Field Calibration Curve, take Qstd = 43 CFM	
From the Regression Equation, the "Y" value according to	
$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$	
Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ <u>4.17</u>	

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 6 May 2021  
 Checked by: Henry Leung Signature:  Date: 6 May 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/0008

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village  
 Date: 6-May-21 Next Due Date: 6-Jul-21 Operator: SK  
 Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	<u>298.2</u>	Pressure, Pa (mmHg)	<u>761.4</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	<u>11-Jan-22</u>				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.6</u>	3.69	63.17	<u>9.6</u>	3.10
2	<u>11.4</u>	3.38	57.84	<u>7.5</u>	2.74
3	<u>8.4</u>	2.90	49.66	<u>5.9</u>	2.43
4	<u>5.2</u>	2.28	39.08	<u>3.5</u>	1.87
5	<u>2.8</u>	1.67	28.69	<u>1.9</u>	1.38

### By Linear Regression of Y on X

Slope, mw = 0.0490 Intercept, bw = -0.0320  
 Correlation coefficient\* = 0.9984

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation


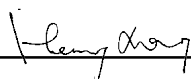
From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  4.30

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 6 May 2021  
 Checked by: Henry Leung Signature:  Date: 6 May 2021

# High-Volume TSP Sampler

## 5-POINT CALIBRATION DATA SHEET

File No. MA20003/41/0006

Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area  
 Date: 26-May-21 Next Due Date: 26-Jul-21 Operator: SK  
 Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	<u>299.3</u>	Pressure, Pa (mmHg)	<u>755</u>

Orifice Transfer Standard Information					
Serial No.	<u>3864</u>	Slope, mc	<u>0.05846</u>	Intercept, bc	<u>-0.00313</u>
Last Calibration Date:	<u>11-Jan-21</u>	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	<u>11-Jan-22</u>				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	$\Delta H$ (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	<u>13.9</u>	3.71	63.48	<u>8.7</u>	2.93
2	<u>11.3</u>	3.34	57.24	<u>6.9</u>	2.61
3	<u>8.1</u>	2.83	48.47	<u>5.4</u>	2.31
4	<u>5.7</u>	2.37	40.67	<u>4.1</u>	2.01
5	<u>2.7</u>	1.63	28.01	<u>2.3</u>	1.51

### By Linear Regression of Y on X

Slope, mw = 0.0393 Intercept, bw = 0.4057  
 Correlation coefficient\* = 0.9987

\*If Correlation Coefficient < 0.990, check and recalibrate.

### Set Point Calculation


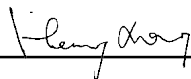
From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W =  $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$  4.44

Remarks: \_\_\_\_\_

Conducted by: SK Wong Signature:  Date: 1 June 2021  
 Checked by: Henry Leung Signature:  Date: 1 June 2021





<b>RECALIBRATION DUE DATE:</b>
<b>January 11, 2022</b>

# Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 11, 2021	Rootsmeter S/N: 438320	Ta: 297 °K	
Operator: Jim Tisch		Pa: 750.1 mm Hg	
Calibration Model #: TE-5025A	Calibrator S/N: <b>3864</b>		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4470	3.2	2.00
2	3	4	1	1.0210	6.4	4.00
3	5	6	1	0.9140	8.0	5.00
4	7	8	1	0.8670	8.8	5.50
5	9	10	1	0.7140	12.9	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left( \frac{Ta}{Pa} \right)}$ (y-axis)
0.9860	0.6814	1.4073	0.9957	0.6881	0.8899
0.9818	0.9616	1.9902	0.9915	0.9711	1.2585
0.9797	1.0719	2.2251	0.9893	1.0824	1.4071
0.9786	1.1288	2.3337	0.9883	1.1399	1.4757
0.9732	1.3630	2.8146	0.9828	1.3765	1.7798
<b>QSTD</b>	m=	<b>2.06566</b>	<b>QA</b>	m=	<b>1.29348</b>
	b=	<b>0.00315</b>		b=	<b>0.00199</b>
	r=	<b>0.99996</b>		r=	<b>0.99996</b>

Calculations	
Vstd= $\Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$	Va= $\Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$
Qstd= $Vstd / \Delta Time$	Qa= $Va / \Delta Time$
For subsequent flow rate calculations:	
Qstd= $1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa= $1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH:	calibrator manometer reading (in H2O)
ΔP:	rootsmeter manometer reading (mm Hg)
Ta:	actual absolute temperature (°K)
Pa:	actual barometric pressure (mm Hg)
b:	intercept
m:	slope

RECALIBRATION
US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

## Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House  
 Manufacturer: Davis Instruments  
 Model No.: Davis7440  
 Serial No.: MC01010A44  
 Equipment No.: SA-03-04  
 Date of Calibration: 20-Feb-2021  
 Next Due Date: 20-Aug-2021

### 1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	$D = V1 - V2$
0.0	0.0	0.0
1.5	1.6	-0.1
2.5	2.5	0.0
3.5	3.4	0.1


### 2. Performance check of Wind Direction

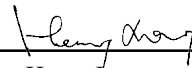
Wind Direction (°)		Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$D = W1 - W2$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

### Test Specification:

**1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer**

**2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction**

Calibrated by:   
Wong Shing Kwai

Approved by:   
Henry Leung