

Certificate of Calibration

Calibration Certification Information
Cal. Date: November 20, 2017

Rootsmeter S/N: 438320

Ta: 294

°K
Operator: Jim Tisch

Pa: 756.9

mm Hg
Calibration Model #: TE-5025A

Calibrator S/N: 2456

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4440	3.2	2.00
2	3	4	1	1.0260	6.4	4.00
3	5	6	1	0.9130	7.8	5.00
4	7	8	1	0.8680	8.8	5.50
5	9	10	1	0.7190	12.7	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)
1.0052	0.6961	1.4209	0.9958	0.6896	0.8814
1.0010	0.9756	2.0095	0.9915	0.9664	1.2465
0.9991	1.0943	2.2467	0.9897	1.0840	1.3936
0.9978	1.1495	2.3563	0.9884	1.1387	1.4616
0.9926	1.3805	2.8418	0.9832	1.3675	1.7628
QSTD	m=	2.07133	QA	m=	1.29703
	b=	-0.01892		b=	-0.01173
	r=	0.99995		r=	0.99995

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

MATERIALAB CONSULTANTS LIMITED

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MaterialLab**TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET**

Project : Environmental Monitoring Works For Contract No. KLN/2015/07				Date of Calibration: 3-Apr-18	
Location : KTD2a				Next Calibration Date: 2-Jul-18	
Brand:	Tisch			Technician: Toby Wan	
Model:	TE-5170	S/N:	3838		

CONDITIONS

Sea Level Pressure (hPa):	1013.6	Corrected Pressure (mm Hg):	760
Temperature (°C):	25	Temperature (K):	298

CALIBRATION ORIFICE

Make:	Tisch	Qstd Slope:	2.07013
Model:	TE-5025A	Qstd Intercept:	-0.01892
Calibration Date:	20-Nov-17	Expiry Date:	20-Nov-18
S/N:	2456		

CALIBRATIONS

Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.90	-5.70	12.600	1.724	55.00	55.00	Slope = 33.3531 Intercept = -3.7146 Corr. coeff.: 0.9963
13	5.40	-4.20	9.600	1.506	46.00	46.00	
10	4.70	-3.40	8.100	1.384	41.00	41.00	
7	2.90	-1.60	4.500	1.034	31.00	31.00	
5	2.00	-1.00	3.000	0.846	25.00	25.00	

Calculations:

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)] - b)$$

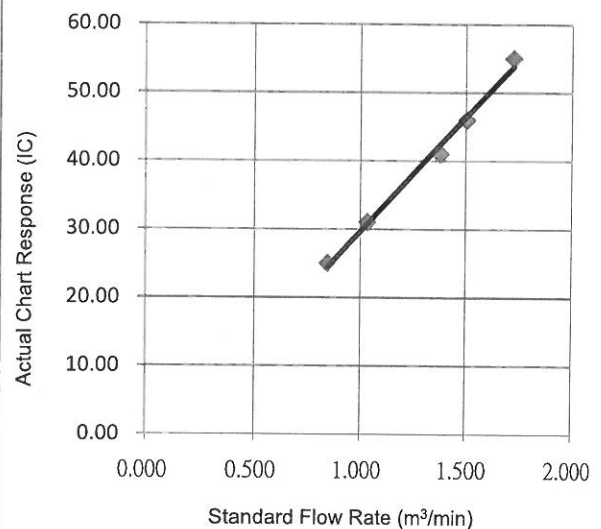
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

FLOW RATE CHART

CHOI KAM HO
Project Consultant

Report Date: 3rd April, 2018

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MaterialLab**TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET**

Project : Environmental Monitoring Works For Contract No. KLN/2015/07		Date of Calibration: 3-Apr-18	
Location : KTD1a		Next Calibration Date: 2-Jul-18	
Brand:	Tisch	Technician: Toby Wan	
Model:	TE-5170	S/N:	4037

CONDITIONS

Sea Level Pressure (hPa):	1013.6	Corrected Pressure (mm Hg):	760
Temperature (°C):	25	Temperature (K):	298

CALIBRATION ORIFICE

Make:	Tisch	Qstd Slope:	2.07013
Model:	TE-5025A	Qstd Intercept:	-0.01892
Calibration Date:	20-Nov-17	Expiry Date:	20-Nov-18
S/N:	2456		

CALIBRATIONS

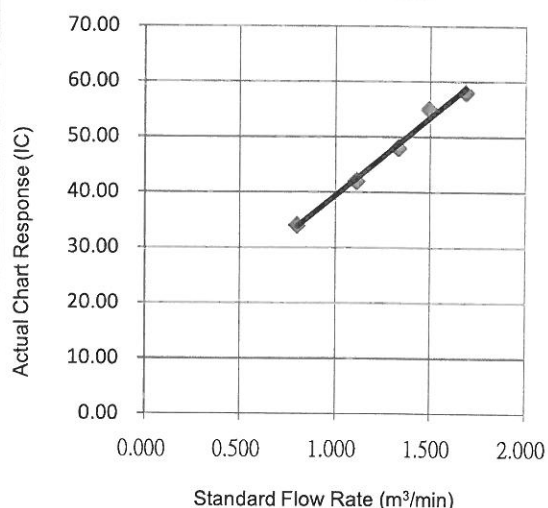
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.00	-6.10	12.100	1.689	58.00	58.00	Slope = 28.1358 Intercept = 11.1997 Corr. coeff.: 0.9947
13	4.80	-4.70	9.500	1.498	55.00	55.00	
10	3.60	-3.90	7.500	1.332	48.00	48.00	
7	2.50	-2.70	5.200	1.111	42.00	42.00	
5	1.30	-1.40	2.700	0.803	34.00	34.00	

Calculations:

$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta)) - b]$
 $IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$
 Qstd = standard flow rate
 IC = corrected chart response
 I = actual chart response
 m = calibrator Qstd slope
 b = calibrator Qstd intercept
 Ta = actual temperature during calibration (deg K)
 Pa = actual pressure during calibration (mm Hg)
 Tstd = 298 deg K
 Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$1/m((I) [\text{Sqrt}(298/Tav)(Pav/760)] - b)$
 m = sampler slope
 b = sampler intercept
 I = chart response
 Tav = daily average temperature
 Pav = daily average pressure

FLOW RATE CHART

CHOI KAM HO
Project Consultant

Report Date: 3rd April, 2018

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MaterialLab**TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET**

Project : Environmental Monitoring Works For Contract No. KLN/2015/07				Date of Calibration: 3-Apr-18	
Location : KER1b				Next Calibration Date: 2-Jul-18	
Brand:	Tisch			Technician: Toby Wan	
Model:	TE-5170	S/N:	3482		

CONDITIONS

Sea Level Pressure (hPa):	1013.6	Corrected Pressure (mm Hg):	760
Temperature (°C):	25	Temperature (K):	298

CALIBRATION ORIFICE

Make:	Tisch	Qstd Slope:	2.07013
Model:	TE-5025A	Qstd Intercept:	-0.01892
Calibration Date:	20-Nov-17	Expiry Date:	20-Nov-18
S/N:	2456		

CALIBRATIONS

Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m ³ /min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	7.00	-5.70	12.700	1.731	56.00	56.00	Slope = 34.9372 Intercept = -4.4008 Corr. coeff.: 0.9965
13	5.70	-4.50	10.200	1.552	49.00	49.00	
10	4.60	-3.30	7.900	1.367	44.00	44.00	
7	3.10	-1.90	5.000	1.089	35.00	35.00	
5	2.20	-1.00	3.200	0.873	25.00	25.00	

Calculations:

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$$1/m((I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

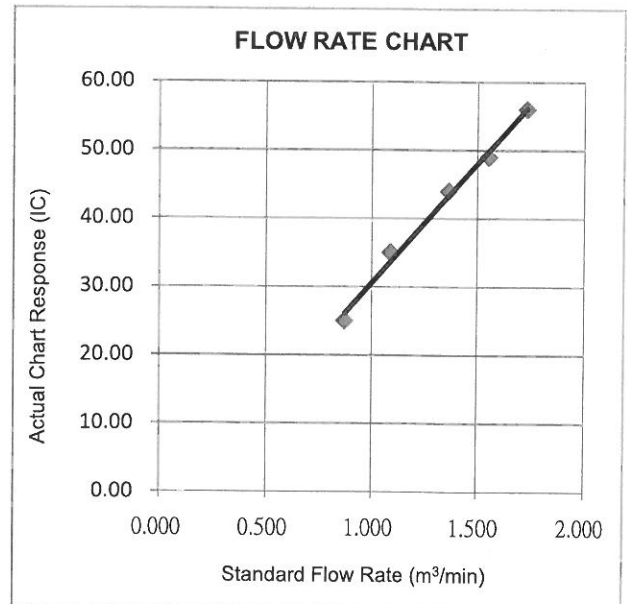
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



CHOI KAM HO
Project Consultant

Report Date: 3rd April, 2018

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MaterialLab

Report no.: 172379CA171674

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : MaterialLab Consultants Ltd.

Address : Room 723 & 725, 7F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Level Meter
Manufacturer : Casella
Model No. : Casella (Model no. CEL-63X(meter), CEL-251(microphone), CEL-495(Preamplifier))
Serial No. : 1057034 (meter), 01308 (microphone), 002672 (Preamplifier))
Next Calibration Date : 30-Jul-2018
Specification Limit : EN 61672: 2003 Type 1

Laboratory Information

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration : 31-Jul-2017 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of MaterialLab

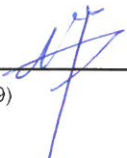
Method Used : By direct comparison

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	2.5	2.6 to -0.6
	2000Hz	0.5	2.8 to -0.4
	1000Hz	-1.0	1.1 to -1.1
	500Hz	-4.5	-1.8 to -4.6
	250Hz	-10.0	-7.2 to -10.0
	125Hz	-17.4	-14.6 to -17.6
	63Hz	-27.3	-24.7 to -27.7
	31.5Hz	-40.0	-37.4 to -41.4
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.0	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighing is fast
4. The equipment complies with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Checked by : 
CA-R-297 (22/07/2009)

Date : 28-2017

Certified by : 

Date : 28-8-2017

Kwok Chi Wa (Assistant Manager)

** End of Report **

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MaterialLab

Report no.: 172379CA180329

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : MaterialLab Consultants Ltd.

Address : Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Level Meter

Manufacturer : Casella

Model No.

Serial No.

Next Calibration Date : 12-Feb-2019

Specification Limit : EN 61672: 2003 Type 1

Meter	Microphone	Preamplifier
CL63X	CE-251	CEL-495
1057055	00995	002317

Laboratory Information

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration : 13-Feb-2018 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct comparison

Calibration Results :

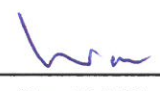
Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	0.4	2.6 to -0.6
	2000Hz	1.0	2.8 to -0.4
	1000Hz	0.2	1.1 to -1.1
	500Hz	-3.0	-1.8 to -4.6
	250Hz	-8.3	-7.2 to -10.0
	125Hz	-15.7	-14.6 to -17.6
	63Hz	-25.7	-24.7 to -27.7
	31.5Hz	-38.7	-37.4 to -41.4
Differential level linearity	94dB-104dB	0.1	± 0.6
	104dB-114dB	0.0	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighing is fast
4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Checked by : 
CA-R-297 (22/07/2009)

Date : 14-2-2018

Certified by : 

Chan Chun Wai (Manager)

Date : 26-2-2018

** End of Report **

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MaterialLab

Report no.: 172379CA172109

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : MaterialLab Consultants Ltd.

Address : Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Level Meter

Manufacturer : Casella

Model No. : CL63X

Serial No. : 4637931

Equipment ID : N-13

Next Calibration Date : 17-Sep-2018

Specification Limit : EN 61672: 2003 Type 1

Meter	Microphone	Preamplifier
CL63X	CE-251	CEL-495
4637931	01993	003538

Laboratory Information

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. : R-108-1

Date of Calibration : 18-Sep-2017 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of MaterialLab

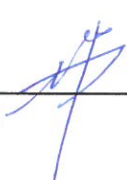
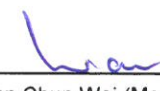
Method Used : By direct comparison

Calibration Results :

Parameters	Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	2.6 to -0.6
	2000Hz	1.3 to -0.4
	1000Hz	1.1 to -1.1
	500Hz	-1.8 to -4.6
	250Hz	-7.2 to -10.0
	125Hz	-14.6 to -17.6
	63Hz	-24.7 to -27.7
	31.5Hz	-37.4 to -41.4
Differential level linearity	94dB-104dB	± 0.6
	104dB-114dB	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference range is 30-130dB, reference SPL is 94,104 & 114dB, frequency weighing is A,
4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Checked by :  Date : 19-9-2017 Certified by :  Date : 20-9-2017
CA-R-297 (22/07/2009) Chan Chun Wai (Manager)

** End of Report **

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MaterialLab

Report no.: 172379CA180671(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : MaterialLab Consultants Ltd.

Address : Room 723 & 725, 7/F., Block B Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Chung, N.T.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Calibrator
Manufacturer : Casella (Model no. CEL-120/1)
Serial No. : 5230742
Next Calibration Date : 10-Apr-2019
Specification Limit : EN 60942: 2003 Type 1

Laboratory Information

Description : Reference Sound Level Meter
Equipment ID. : R-119-1
Date of Calibration : 11-Apr-2018 Ambient Temperature : 21 °C
Calibration Location : Calibration Laboratory of FTS
Method Used : By direct comparison

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit (dB)
94dB	-0.4 dB	±0.4dB
114dB	0.0 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment does comply with the specification limit.

Checked by :  Date : 16/4/2018 Certified by :  Date : 16/4/2018
CA-R-297 (22/07/2009) Chan Chun Wai (Manager)

**** End of Report ****

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MaterialLab

Report no.: 172379CA180517(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : MaterialLab Consultants Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Sound Calibrator
Manufacturer : Casella (Model no. CEL-120/1)
Serial No. : 5230758
Equipment ID : FY-SLC-01
Next Calibration Date : 11-Mar-2019
Specification Limit : EN 60942: 2003 Type 1

Laboratory Information

Description : Reference Sound level meter
Equipment ID. : R-119-1
Date of Calibration : 12-Mar-2018 Ambient Temperature : 22 °C
Calibration Location : Calibration Laboratory of FTS
Method Used : By direct comparison

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.4 dB	±0.4dB
114dB	-0.3 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment does comply with the specification limit.

Checked by : 
CA-R-297 (22/07/2009)

Date : 13.3.2018

Certified by : 

Chan Chun Wai (Manager)

Date : 13.3.2018

**** End of Report ****

Kalibrier-Protokoll

Certificate of conformity • Protocole d'étalonnage
Certificato di taratura • Informe de calibración

We measure it.



**Gerät / Module type /
Modèle / Modelo:**

0560 0480

**Serien-Nr. / Serial no. /
No. de série / Número de serie:**

61003846

**Segmenttest / Display test /
Testes d'affichage / Test del visualizador:**

ok

**Tastaturtest / Keyboard test /
Testes de clavier / Test del teclado:**

ok

**Messwerte / Measured values /
Valeurs mesurées / Valores medidos:**

**Sollwert /
Reference /
Référence /
Referencia:**

**Toleranz /
Tolerance /
Tolérance /
Tolerancia:**

**Istwert /
Actual Value /
Valeur réelle /
Valor medido:**

Druck / Pressure / Pression / Presión

10.000 hPa

± 0.103 hPa

10.000 hPa

19.999 hPa

± 0.203 hPa

20.000 hPa

Temperatur / Temperature / Température / Temperatura (TE1, TE2)

500.0 °C

± 1.3 °C

500.0 °C

500.0 °C

± 1.3 °C

499.9 °C

**Absolutdruck / Absolute pressure /
Pression absolue / Presión absoluta**

927.8 hPa

± 3.0 hPa

927.8 hPa

**Datum / Date /
Date / Fecha:**

**Prüfer / Inspector /
Vérificateur / Verificador:**

20.06.2017

40

Kalibrier-Protokoll

Certificate of conformity • Protocole d'étalonnage
Certificato di taratura • Informe de calibración

We measure it.



**Gerät / Module type /
Modèle / Modelo:**

0628 0143

**Serien-Nr. / Serial no. /
No. de série / Número de serie:**

03216409

**Messwerte / Measured values /
Valeurs mesurées / Valores medidos:**

**Sollwert /
Reference /
Référence /
Referencia:**

**Toleranz /
Tolerance /
Tolérance /
Tolerancia:**

**Istwert /
Actual Value /
Valeur réelle /
Valor medido:**

Strömung / Velocity / Vitesse d'air / Velocidad

1.00 m/s	± 0.07 m/s	1.01 m/s
----------	------------	----------

3.00 m/s	± 0.15 m/s	3.08 m/s
----------	------------	----------

5.00 m/s	± 0.23 m/s	5.04 m/s
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Temperatur / Temperature / Température / Temperatura (NTC)

21.3 °C	± 0.5 °C	21.0 °C
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**Absolutdruck / Barometric pressure / Pression d'air / Présion
atmosférica**

926.5 hPa	± 3.0 hPa	926.4 hPa
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**Datum / Date /
Date / Fecha:**

21.06.2017

**Prüfer / Inspector /
Vérificateur / Verificador:**

425

FUGRO TECHNICAL SERVICES LIMITED

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MaterialLab

Report No. : 183057CA185180(1)

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CALIBRATION CERTIFICATE OF ANEMOMETER

Client Supplied Information

Client : MaterialLab Consultants Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Anemometer

Manufacturer : Benetech

Model No. : GM816

Serial No. : 13372555

Equipment ID. : N/A

Next Calibration Date : 08-Jun-2019

Laboratory Information

Details of Reference Equipment –

Description : Reference Anemometer

Equipment ID. : R-101-4

Date of Calibration : 09-Jun-2018 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct Comparison

Calibration Results :

Reference Reading (m/s)	UUT Reading (m/s)	Error (m/s)
1.96	2.2	0.2
4.04	4.1	0.1
6.05	6.2	0.2
8.02	7.9	-0.1
10.06	9.7	-0.4

Remark :

1. The equipment being used in this calibration is traceable to recognized National Standards.

Checked by : William Date : 12-6-2018 Certified by : Chan Chun Wai Date : 13-6-2018

CA-R-297 (22/07/2009)

Chan Chun Wai (Manager)

**** End of Report ****