

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 5  
 Calibrated by : P.F. Yeung  
 Date : 11/04/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1016  
 Ta(K) : 291

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 11.6                              | 3.411 | 1.653                       | 53            | 53.07            |
| 2                | 13 holes | 9.2                               | 3.037 | 1.476                       | 48            | 48.07            |
| 3                | 10 holes | 6.8                               | 2.611 | 1.273                       | 42            | 42.06            |
| 4                | 7 holes  | 4.6                               | 2.148 | 1.053                       | 36            | 36.05            |
| 5                | 5 holes  | 2.8                               | 1.676 | 0.829                       | 29            | 29.04            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 28.998 Intercept(b): 5.212 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 16/04/2016

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR10  
 Calibrated by : P.F. Yeung  
 Date : 11/04/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009  
 Ta(K) : 296

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 11.8                              | 3.440 | 1.667                       | 57            | 57.08            |
| 2                | 13 holes | 9.6                               | 3.103 | 1.507                       | 51            | 51.07            |
| 3                | 10 holes | 6.8                               | 2.611 | 1.273                       | 44            | 44.06            |
| 4                | 7 holes  | 4.5                               | 2.124 | 1.042                       | 37            | 37.05            |
| 5                | 5 holes  | 2.8                               | 1.676 | 0.829                       | 30            | 30.04            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 31.718 Intercept(b): 3.782 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 16/04/16

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AQMS1  
 Calibrated by : P.F. Yeung  
 Date : 11/04/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009  
 Ta(K) : 296

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 12.0                              | 3.469 | 1.681                       | 53            | 53.07            |
| 2                | 13 holes | 9.2                               | 3.037 | 1.476                       | 48            | 48.07            |
| 3                | 10 holes | 6.6                               | 2.573 | 1.255                       | 41            | 41.06            |
| 4                | 7 holes  | 4.3                               | 2.077 | 1.019                       | 35            | 35.05            |
| 5                | 5 holes  | 2.6                               | 1.615 | 0.800                       | 29            | 29.04            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 31.383 Intercept(b): 3.340 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 16/04/2016

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 1  
 Calibrated by : P.F.Yeung  
 Date : 11/04/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 0146

Calibration Office and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009  
 Ta(K) : 296

| Resistance Plate | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1   18 holes     | 11.5                              | 3.396 | 1.646                       | 55            | 55.08            |
| 2   13 holes     | 9.5                               | 3.086 | 1.499                       | 50            | 50.07            |
| 3   10 holes     | 7.0                               | 2.649 | 1.292                       | 44            | 44.06            |
| 4   7 holes      | 4.4                               | 2.101 | 1.031                       | 36            | 36.05            |
| 5   5 holes      | 2.8                               | 1.676 | 0.829                       | 29            | 29.04            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 27.517      Intercept(b): 6.967      Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 16/04/2016

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 6  
 Calibrated by : P.F.Yeung  
 Date : 11/04/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 3957

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1009  
 Ta(K) : 296

| Resistance Plate | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1   18 holes     | 12.0                              | 3.469 | 1.681                       | 55            | 55.08            |
| 2   13 holes     | 9.5                               | 3.086 | 1.499                       | 49            | 49.07            |
| 3   10 holes     | 6.8                               | 2.611 | 1.273                       | 42            | 42.06            |
| 4   7 holes      | 4.4                               | 2.101 | 1.031                       | 34            | 34.05            |
| 5   5 holes      | 2.6                               | 1.615 | 0.800                       | 26            | 26.04            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 32.763      Intercept(b): 0.081      Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 16/04/2016

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 5  
 Calibrated by : P.F. Yeung  
 Date : 11/06/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 0816

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1006  
 Ta(K) : 301

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 12.0                              | 3.435 | 1.665                       | 50            | 49.58            |
| 2                | 13 holes | 9.4                               | 3.040 | 1.477                       | 45            | 44.62            |
| 3                | 10 holes | 6.9                               | 2.605 | 1.270                       | 38            | 37.68            |
| 4                | 7 holes  | 4.2                               | 2.032 | 0.998                       | 30            | 29.75            |
| 5                | 5 holes  | 2.8                               | 1.659 | 0.821                       | 24            | 23.80            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 30.642      Intercept(b): 1.103      Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 16/06/2016

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR10  
 Calibrated by : P.F. Yeung  
 Date : 11/06/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 8162

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1006  
 Ta(K) : 301

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 9.0                               | 2.975 | 1.446                       | 50            | 49.58            |
| 2                | 13 holes | 7.0                               | 2.623 | 1.279                       | 44            | 43.63            |
| 3                | 10 holes | 5.3                               | 2.283 | 1.117                       | 40            | 39.66            |
| 4                | 7 holes  | 3.7                               | 1.907 | 0.939                       | 34            | 33.71            |
| 5                | 5 holes  | 2.2                               | 1.471 | 0.731                       | 28            | 27.76            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 30.232 Intercept(b): 5.540 Correlation Coefficient(r): 0.9989

Checked by: Magnum Fan

Date: 16/06/16

High-Volume TSP Sampler  
5-Point Calibration Record

Location : AQMS1  
 Calibrated by : P.F. Yeung  
 Date : 11/06/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1006  
 Ta(K) : 301

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 11.2                              | 3.318 | 1.610                       | 48            | 47.59            |
| 2                | 13 holes | 8.8                               | 2.941 | 1.430                       | 42            | 41.65            |
| 3                | 10 holes | 6.6                               | 2.547 | 1.243                       | 36            | 35.70            |
| 4                | 7 holes  | 4.2                               | 2.032 | 0.998                       | 29            | 28.76            |
| 5                | 5 holes  | 2.6                               | 1.599 | 0.792                       | 23            | 22.81            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 30.159 Intercept(b): -1.331 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 16/06/2016



High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 1  
 Calibrated by : P.F.Yeung  
 Date : 11/06/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 0146

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1006  
 Ta(K) : 301

| Resistance Plate | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1   18 holes     | 11.4                              | 3.348 | 1.624                       | 54            | 53.54            |
| 2   13 holes     | 9.2                               | 3.008 | 1.462                       | 48            | 47.59            |
| 3   10 holes     | 6.8                               | 2.586 | 1.261                       | 41            | 40.65            |
| 4   7 holes      | 4.3                               | 2.056 | 1.009                       | 32            | 31.73            |
| 5   5 holes      | 2.7                               | 1.629 | 0.806                       | 24            | 23.80            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 36.117      Intercept(b): -5.050      Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 16/06/2016

High-Volume TSP Sampler  
5-Point Calibration Record

Location : ASR 6  
 Calibrated by : P.F.Yeung  
 Date : 11/06/2016

Sampler

Model : TE-5170  
 Serial Number : S/N 3957

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454  
 Service Date : 14 Mar 2016  
 Slope (m) : 2.10326  
 Intercept (b) : -0.06696  
 Correlation Coefficient(r) : 0.99989

Standard Condition

Pstd (hpa) : 1013  
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1006  
 Ta(K) : 301

| Resistance Plate |          | dH [green liquid]<br>(inch water) | Z     | X=Qstd<br>(cubic meter/min) | IC<br>(chart) | Y<br>(corrected) |
|------------------|----------|-----------------------------------|-------|-----------------------------|---------------|------------------|
| 1                | 18 holes | 12.6                              | 3.520 | 1.705                       | 52            | 51.56            |
| 2                | 13 holes | 9.6                               | 3.072 | 1.493                       | 45            | 44.62            |
| 3                | 10 holes | 7.0                               | 2.623 | 1.279                       | 38            | 37.68            |
| 4                | 7 holes  | 4.5                               | 2.103 | 1.032                       | 30            | 29.75            |
| 5                | 5 holes  | 2.8                               | 1.659 | 0.821                       | 24            | 23.80            |

Notes:  $Z = \sqrt{dH(Pa/Pstd)(Tstd/Ta)}$ ,  $X = Z/m - b$ ,  $Y(\text{Corrected Flow}) = IC * \{\sqrt{Pa/Pstd}(Tstd/Ta)\}$

Sampler Calibration Relationship (Linear Regression)

Slope(m): 31.573      Intercept(b): -2.487      Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan

Date: 16/06/2016

**ENVIROTECH SERVICES CO.**

**Calibration Report of Wind Meter**

Date of Calibration : 02 May 2016

Brand of Test Meter: Davis

Model: Vantage Pro 2 (s/n: AS160104014)

Location : Roof of Tuen Mun Firestation

Procedures :

- 1. Wind Still Test: The wind speed sensor was hold by hand until it keep still
- 2. Wind Speed Test: The wind meter was on-site calibrated against the Anemometer
- 3. Wind Direction Test : The wind meter was on-site calibrated against the marine compass at four directions

Results:

Wind Still Test

| Wind Speed (m/s) |
|------------------|
| 0.00             |

Wind Speed Test

| Davis (m/s) | Anemomete (m/s) |
|-------------|-----------------|
| 1.4         | 1.5             |
| 2.4         | 2.3             |
| 2.6         | 2.8             |

Wind Direction Test

| Davis (o) | Marine Compass (o) |
|-----------|--------------------|
| 270       | 270                |
| 1         | 0                  |
| 89        | 90                 |
| 181       | 180                |

Calibrated by: *Ho*  
Yeung Ping Fai  
(Technical Officer)

Checked by : *Fat*  
Ho Kam Fat  
(Senior Technical Officer)



TISCH ENVIRONMENTAL, INC.  
 145 SOUTH MIAMI AVE  
 VILLAGE OF CLEVELAND, OH  
 45002  
 513.467.9000  
 877.263.7610 TOLL FREE  
 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Mar 14, 2016 Rootsmeter S/N 0438320 Ta (K) - 295  
 Operator Tisch Orifice I.D. - 2454 Pa (mm) - 745.49

| PLATE OR Run # | VOLUME START (m3) | VOLUME STOP (m3) | DIFF VOLUME (m3) | DIFF TIME (min) | METER DIFF Hg (mm) | ORFICE DIFF H2O (in.) |
|----------------|-------------------|------------------|------------------|-----------------|--------------------|-----------------------|
| 1              | NA                | NA               | 1.00             | 1.4020          | 3.2                | 2.00                  |
| 2              | NA                | NA               | 1.00             | 1.0060          | 6.4                | 4.00                  |
| 3              | NA                | NA               | 1.00             | 0.9010          | 7.9                | 5.00                  |
| 4              | NA                | NA               | 1.00             | 0.8590          | 8.8                | 5.50                  |
| 5              | NA                | NA               | 1.00             | 0.7090          | 12.8               | 8.00                  |

DATA TABULATION

| Vstd                                | (x axis) Qstd | (y axis) | Va                        | (x axis) Qa | (y axis) |
|-------------------------------------|---------------|----------|---------------------------|-------------|----------|
| 0.9866                              | 0.7037        | 1.4078   | 0.9957                    | 0.7102      | 0.8896   |
| 0.9824                              | 0.9765        | 1.9909   | 0.9914                    | 0.9855      | 1.2581   |
| 0.9803                              | 1.0880        | 2.2259   | 0.9893                    | 1.0980      | 1.4066   |
| 0.9792                              | 1.1399        | 2.3345   | 0.9882                    | 1.1504      | 1.4753   |
| 0.9738                              | 1.3735        | 2.8155   | 0.9828                    | 1.3862      | 1.7792   |
| Qstd slope (m) = 2.10326            |               |          | Qa slope (m) = 1.31703    |             |          |
| intercept (b) = -0.06696            |               |          | intercept (b) = -0.04232  |             |          |
| coefficient (r) = 0.99989           |               |          | coefficient (r) = 0.99989 |             |          |
| y axis = SQRT[H2O(Pa/760) (298/Ta)] |               |          | y axis = SQRT[H2O(Ta/Pa)] |             |          |

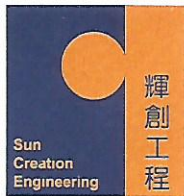
CALCULATIONS

Vstd = Diff. Vol [(Pa-Diff. Hg)/760] (298/Ta)  
 Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]  
 Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{ [SQRT(H2O(Pa/760) (298/Ta))] - b}  
 Qa = 1/m{ [SQRT H2O(Ta/Pa)] - b}



# Certificate of Calibration 校正證書

Certificate No. : C160461  
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC16-0158)      Date of Receipt / 收件日期 : 19 January 2016

Description / 儀器名稱 : Anemometer  
Manufacturer / 製造商 : Lutron  
Model No. / 型號 : AM-4201  
Serial No. / 編號 : AF.27513  
Supplied By / 委託者 : Envirotech Services Co.  
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,  
New Territories, Hong Kong

## TEST CONDITIONS / 測試條件

Temperature / 溫度 :  $(23 \pm 2)^{\circ}\text{C}$       Relative Humidity / 相對濕度 :  $(55 \pm 20)\%$   
Line Voltage / 電壓 : ---

## TEST SPECIFICATIONS / 測試規範


Calibration check

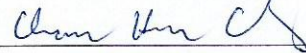
DATE OF TEST / 測試日期 : 27 January 2016

## TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.  
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :  
- Testo Industrial Services GmbH, Germany

Tested By :   
測試  
M T Leung  
Assistant Technical Officer

Certified By :   
核證  
H C Chan  
Engineer

Date of Issue : 27 January 2016  
簽發日期

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.  
本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

# Certificate of Calibration

## 校正證書

Certificate No. : C160461

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
2. The results presented are the mean of 10 measurements at each calibration point.
3. Test equipment :

| <u>Equipment ID</u> | <u>Description</u>                  | <u>Certificate No.</u> |
|---------------------|-------------------------------------|------------------------|
| CL386               | Multi-function Measuring Instrument | S12109                 |

4. Test procedure : MA130N.

5. Results :

### Air Velocity

| Applied Value (m/s) | UUT Reading (m/s) | Measured Correction |                            |                 |
|---------------------|-------------------|---------------------|----------------------------|-----------------|
|                     |                   | Value (m/s)         | Measurement Uncertainty    |                 |
|                     |                   |                     | Expanded Uncertainty (m/s) | Coverage Factor |
| 2.0                 | 1.8               | +0.2                | 0.2                        | 2.0             |
| 4.1                 | 3.9               | +0.2                | 0.3                        | 2.0             |
| 6.0                 | 5.9               | +0.1                | 0.3                        | 2.0             |
| 8.0                 | 8.0               | 0.0                 | 0.3                        | 2.0             |
| 10.0                | 10.2              | -0.2                | 0.4                        | 2.0             |

Remarks : - The Measured Corrections are defined as :  
Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

### Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。