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Tel : (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

14CA1213 01

Page

of

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

B&K 2236

B&K

Type/Model No.: Serial/Equipment No.: 2100736

4188 2288941

Adaptors used:

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No.:

13-Dec-2014

Date of receipt:

Date of test:

13-Dec-2014

Reference equipment used in the calibration

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator

B&K 4226

2288444

20-Jun-2015

CIGISMEC

Signal generator Signal generator

DS 360 DS 360

33873 61227

09-Apr-2015 09-Apr-2015

CEPREI CEPREI

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity: Air pressure:

60 ± 5 % 1010 ± 5 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580; Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

15-Dec-2014

Company Chop:

Huang Jian Min/∮eng Jun Qi

Comments: The results reported in his certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No CARP152-1/Issue 1/Rev C/01/02/2007



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

14CA1213 01

Page

2

2

1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	1.00
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	Α	Pass	0.3	
	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Date:

Fung Chi Yip 13-Dec-2014 End

Checked by:

Date:

Lam Tze Wai 15-Dec-2014

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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CERTIFICATE OF CALIBRATION

Certificate No.:

15CA0528 04-03

Page:

1

Tel: (852) 2873 6860

Fax: (852) 2555 7533

2

of

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Type/Model No.: Serial/Equipment No.: Rion Co., Ltd. NC-73 10465798

Adaptors used:

10

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer:

Request No.: Date of receipt:

28-May-2015

Date of test:

30-May-2015

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

Ambient conditions

Temperature: 21 ± 1 °C Relative humidity: 60 ± 10 % Air pressure: 1000 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

n/Feng Jun Qi

Huano Jian

Approved Signatory:

Date: 01-Jun-2015

Company Chos

SENGINEER SENGI

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

@ Soils & Materials Engineering Co., Ltd.

Form No. CARP156-1/Issue 1/Rev. D/01/03/2007



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA0528 04-03

Page:

of

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded	
Shown	Level Setting	Sound Pressure Level	Uncertainty	
Hz	dB	dB	dB	
1000	94.00	94.06	0.10	

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.002 dB

Estimated expanded uncertainty

0.005 dB

3, **Actual Output Frequency**

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 966.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

Total Noise and Distortion 4,

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.5 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

End

Fung Chi Yip

Checked by:

Lam Tze Wai

Date:

30-May-2015

Date:

01-Jun-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

					METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3870	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.00
3	NA	NA	1.00	0.8760	7.9	5.0
4	NA	NA	1.00	0.8340	8.8	5.5
5	NA	NA	1.00	0.6860	12.7	8.0

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9692	0.7078 0.9944 1.1135 1.1683 1.4128	1.4042 1.9859 2.2203 2.3286 2.8084		0.9957 0.9915 0.9894 0.9882 0.9830	0.7179 1.0086 1.1294 1.1849 1.4330	0.8919 1.2613 1.4101 1.4790 1.7837
Qstd slo	t (b) =	1.99175 -0.00041 0.99991		Qa slop intercep coeffici	t (b) =	1.24720 -0.00026 0.99991
y axis =	SQRT [H2O (F	a/760) (298/7	ra)]	y axis =	SQRT [H20 (T	[a/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 = $1/m\{ [SQRT H2O(Ta/Pa)] - b\}$



Location :		CMA1b				Calbratio	on Date	:	10-Jun-15
Equipment no.		EL452				Calbratio	on Due Date	: _	10-Aug-15
								_	
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient C	ondition				
Temperature, T _a		303		1	Pressure, P	a	1	007	mmHg
			Orifice Tr	ansfer Sta	ndard Inforr	nation			
Equipment No.		EL086		Slope, m _c	1.991	75	Intercept, bc	Т	-0.00041
Last Calibration Date		14-Jul-1	4		(Hx	P _a / 101	3.3 x 298 /) 1/2
Next Calibration Date		14-Jul-1					a,		
				Calibratia	TCD	-			
Calibration	Mon	ometer R	anding.	Calibratio		Continu	ious Flow		IC
				Sid			Recorder, W		
Point		nches of			/ min.)	(CFM)		(VV(F	P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)		axis	(CFM) 60			Y-axis
1	6.1	6.1	12.2		7339				59.3176
2	4.7	4.7	9.4		5220	54			53.3859
3	3.8	3.8	7.6		3686		48		47.4541
4	2.3	2.3	4.6		0648	38			37.5678
5	1.4	1.4	2.8	3.0	3308		30		29.6588
By Linear Regression of									
	Slope, m	=	33.1		Into	ercept, b =	2.	2031	
Correlation Co		=	0.99						
Calibration	Accepted	=	Yes/F	\0 **					
* if Correlation Coefficien	nt < 0.990,	check and	l recalibration	n again.					
** Delete as appropriate.									
Delete as appropriate.									
Remarks :									
	ı	uLu Mar				Checked	l by		Derek Lo
Calibrated by		0-Jun-15				Date	Jy	· –	10-Jun-15
Date	11	o Jun-1J				Date		•	10-Juli-1J



Lam Geotechincs Limited

Location :		CMA2a			Calbration Date : 10-Jun				
Equipment no.		EL449			Calbrat	ion Due Date	: 10-Aug-15		
CALIBRATION OF CON	TINUOUS	FLOW RI	ECORDER						
				Ambient Condition					
Temperature, T _a	303			Kelvin Pressure,	P _a	10	007 mmHg		
			Orifice 1	ransfer Standard Inf	ormation				
Equipment No.		EL086		Slope, mc 1.99	175	Intercept, bc	-0.00041		
Last Calibration Date		14-Jul-1	4	(F	$Ix P_a / 10$	013.3 x 298 /	T_a) $^{1/2}$		
Next Calibration Date		14-Jul-1	5			$x Q_{std} + b_c$			
				Calibration of TSP					
Calibration	Man	ometer R	eading	Q _{std}	Conti	nuous Flow	IC		
Point	H (i	nches of	water)	(m ³ / min.)	Red	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X-axis	X-axis (C		Y-axis		
1	5.9	5.9	11.8	1.7053		60	59.3176		
2	4.8	4.8	9.6	1.5381		52	51.4086		
3	3.8	3.8	7.6	1.3686		46	45.4768		
4	2.3	2.3	4.6	1.0648		36	35.5906		
5	1.4	1.4	2.8	0.8308		20	19.7725		
By Linear Regression of	Y on X								
	Slope, m	=	42.7	672 Ir	ntercept, b =	-13.3	3484		
Correlation Co	pefficient*	=	0.99	900					
Calibration	Accepted	=	Yes/ł	No**					
* if Correlation Coefficier	nt < 0.990,	check and	d recalibration	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		uLu Mar			Checke	d by	: Derek Lo		
Date :	1	0-Jun-15			Date		: 10-Jun-15		



				_		-	_	-	
Location :		CMA3a				Calbrati	on Date	:	10-Jun-15
Equipment no.		EL333				Calbrati	on Due Date	:	10-Aug-15
CALIBRATION OF CON	TINUOUS	FLOW RI	ECORDER						
				Ambient C	ondition				
Temperature, T _a		303	3	Kelvin	Pressure, P	a		1007	mmHg
			0						
					ndard Inforn				
Equipment No.		EL086		Slope, m _c	m _c 1.99175 Intercept, b (HxP _a /1013.3 x 298				-0.00041
Last Calibration Date 14-Jul-14								′ I _a)	.,_
Next Calibration Date		14-Jul-1	5		=	m _c x	$Q_{std} + b_c$		
				Calibration	of TSP				
Calibration	Mar	nometer R	eading	Q	std	Continuous Flow			IC
Point	H (i	inches of	water)	(m ³ /	³ / min.) Recorder, W		rder, W	(W(P _a /	1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	X-axis (CFM)		CFM)		Y-axis
1	5.6	5.6	11.2	1.6	613		52		51.4086
2	4.5	4.5	9.0	1.4	893	48			47.4541
3	3.4	3.4	6.8	1.2	946		40		39.5451
4	2.2	2.2	4.4	1.0)414		34		33.6133
5	1.4	1.4	2.8	0.0	308		28		27.6816
By Linear Regression of	Y on X								
	Slope, m	=	28.9	984	Inte	ercept, b =	3.	.3019	
Correlation Co	efficient*	=	0.99	964					
Calibration	Accepted	=	Yes/	No**					
* if Correlation Coefficier	it < 0.990,	check and	d recalibration	n again.					
** Delete as appropriate.									
Remarks :									
0-19	L	.uLu Mar				Checke	d by	:	Derek Lo
Calibrated by		0-Jun-15				Date	-	:	10-Jun-15
Date									



Location

Calibration Data for High Volume Sampler (TSP Sampler)

Calbration Date

10-Jun-15

Equipment no. :		EL390				Calbrati	on Due Date	:	10-Aug-15
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient (Condition				
Temperature, T _a		303		Kelvin	Pressure, P	a		1007	mmHg
			Orifice Tr	ansfer Sta	andard Inforr	nation			
Equipment No.		EL086		Slope, m	1.991	75	Intercept, bo		-0.00041
Last Calibration Date		14-Jul-14	1		(Hx	P _a / 101	13.3 x 298 /	/T _a) 1	/2
Next Calibration Date		14-Jul-1	5		=	m _c x	$Q_{std} + b_c$		
				Calibratio	on of TSP				
Calibration	Mar	nometer Re	eading	(Q _{std}	Continu	ous Flow		IC
Point	Н (inches of v	water)	(m ³ / min.)		Reco	Recorder, W		013.3x298/T _a) ^{1/2} /35.31
	(up)	(down)	(difference)	X-axis		(CFM)			Y-axis
1	5.9	5.9	11.8	1.	7053	57			56.3517
2	4.7	4.7	9.4	1.	5220	52			51.4086
3	3.6	3.6	7.2	1.	3321	44			43.4996
4	2.3	2.3	4.6	1.	.0648	34			33.6133
5	1.4	1.4	2.8	0.	8308	26			25.7043
By Linear Regression of	Y on X								
	Slope, m	=	35.8	979	Inte	ercept, b =	-4	.2281	
Correlation Co	oefficient*	=	0.99	988	_				
Calibration	Accepted	=	Yes/	No**	_				
* if Correlation Coefficier	nt < 0.990	, check and	I recalibratio	n again.					
** Delete as appropriate.									
Remarks :									
	1	ul u Mor				Checke	d by		Dorok I o
Calibrated by		uLu Mar 0-Jun-15				Date	ı uy	: <u> </u>	Derek Lo 10-Jun-15
Date :	ı	0-Juii-15				Date		•	10-Juli-15



Calibration Data for High Volume Sampler (TSP Sampler)

Location :	CMA5b		Calbratio	n Date :	02-Jun-15				
Equipment no.	EL222	-	Calbratio	n Due Date :	02-Aug-15				
		.							
CALIBRATION OF CO	NTINUOUS FLOW RECORI	<u>DER</u>							
Ambient Condition									
Temperature, T _a	303	Kelvin	Pressure, Pa	1009) mmHg				

Orifice Transfer Standard Information										
Equipment No.	Equipment No. EL086 Slope, m _c 1.99175 Intercept, bc -0.00041									
Last Calibration Date	14-Jul-14		$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$							
Next Calibration Date										

Calibration of TSP									
Calibration	Manometer Reading			Q _{std}	Continuous Flow	IC			
Point	H (inches of water)		(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)				
	(up) (down) (difference)		X-axis	(CFM)	Y-axis				
1	6.3	6.3	12.6	1.7639	65	64.3245			
2	4.8	4.8	9.6	1.5397	58	57.3973			
3	3.6	3.6	7.2	1.3334	52	51.4596			
4	2.3	2.3	4.6	1.0658	42	41.5636			
5	1.4	1.4	2.8	0.8316	30	29.6883			
By Linear Regression of Y on X									
	Slope, m	=	36.5	046 Int	ercept, b = 1.	1799			
Correlation Co	=	0.99	034						

k	if	Correlation	Coefficient	< 0.990,	check and	d recalibration	again.

Calibration Accepted

** Delete as	appropriate.
--------------	--------------

Remarks :	emarks :									
Calibrated by	:	LuLu Mar	Checked by	:	Derek Lo					
Date	:	02-Jun-15	Date	:	02-Jun-15					

Yes/No**



Location :	: MA1e					: 10-Jun-15		
Equipment no.	: EL455					: 10-Aug-15		
CALIBRATION OF CON	ITINUOUS	FI OW RE	CORDER					
GALIBRATION OF CON	11110000	T LOW IX	LOOKDEK	Amhient	Condition			
Temperature, T _a		303		1	Pressure, P		10	
								g
	I		Orifice '	I I	tandard Info	rmation		
Equipment No.		EL086		Slope, m _c	1.9917		Intercept, bc	-0.00041
Last Calibration Date		14-Jul-1	4		(H	$xP_a/1$	013.3 x 298 / T	Γ_a) $^{1/2}$
Next Calibration Date		14-Jul-1	5		=	m _c	$x Q_{std} + b_c$	
				Calibrat	ion of TSP			
Calibration	Man	ometer R	eading	C	std	Con	tinuous Flow	IC
Point	H (i	nches of	water)	(m ³	n ³ / min.)		ecorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	-axis (CFM		(CFM)	Y-axis
1	6.3	6.3	12.6	1.7	1.7621		62	61.2949
2	5.0	5.0	10.0	1.5698		54		53.3859
3	3.7	3.7	7.4	1.3505		48		47.4541
4	2.3	2.3	4.6	1.0648		32		31.6361
5	1.3	1.3	2.6	0.0	3006	20		19.7725
By Linear Regression of	Y on X							
	Slope, m	=	43.4	397	Inte	ercept, b =	= -14.1	778
Correlation Co	pefficient*	=	0.99	950				
Calibration	Accepted	= Yes/4		Ne**				
* if Correlation Coefficier	nt < 0.990,	check and	l recalibratio	n again.				
** Delete as appropriate.								
_								
Remarks :								
Calibrated by		uLu Mar				Checke	ea by	: Derek Lo
Data :	10	0-Jun-15				Date		: 10-Jun-15



Location :	: MA1w				Calbration	: 10-Jun-15	
Equipment no.		EL080			Calbratio	: 10-Aug-15	
CALIBRATION OF CON	ITINUOUS	FLOW RI	ECORDER				
				Ambient Condition			
Temperature, T _a		303	;	Kelvin Pressure , F	07 mmHg		
			Orifice T	Fransfer Standard Info	rmation		
Equipment No.		EL086		Slope, m _c 1.991	75	Intercept, bc	-0.00041
Last Calibration Date		14-Jul-1	4	(H	x P _a / 10	13.3 x 298 / T	T_a) $^{1/2}$
Next Calibration Date		14-Jul-1	5	=	m_c	$x Q_{std} + b_c$	
				Calibration of TSP			
Calibration	Mar	ometer R	eading	Q _{std}	Continuous Flow		IC
Point	H (i	H (inches of water)		(m ³ / min.)	Rec	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)		Y-axis
1	6.2	6.2	12.4	1.7481	.7481 55		54.3745
2	4.9	4.9	9.8	1.5541		48	47.4541
3	3.7	3.7	7.4	1.3505		40	39.5451
4	2.3	2.3	4.6	1.0648		30	29.6588
5	1.4	1.4	2.8	0.8308	22		21.7498
By Linear Regression of	Y on X						
	Slope, m	=	35.6	919 Int	tercept, b =	-8.1	867
Correlation Co	pefficient*	=	0.99	997			
Calibration Accepted = Ye		Yes/F	\0 **				
* if Correlation Coefficier	nt < 0.990,	check and	d recalibration	n again.			
** Delete as appropriate.							
Remarks :							
					01. 1		
Calibrated by		uLu Mar			Checked	ι ру	Derek Lo
Date :	1	0-Jun-15			Date		: 10-Jun-15