

RECALIBRATION DUE DATE:

January 11, 2020

ertificate d alibration

Calibration Certification Information

Cal. Date: January 11, 2019

Rootsmeter S/N: 438320

Ta: 293 Pa: 760.7 *K

Operator: Jim Tisch Calibration Model #:

TE-5025A

Calibrator S/N: 0005

mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4090	3.2	2.00
2	3	4	1	0.9980	6.4	4.00
3	5	6	1	0,8900	7.8	5.00
4	7	8	1	0.8450	8.7	5.50
5	9	10	1	0.6990	12.6	8.00

		Data Tabulat	tion		
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa) (y-axis)
1.0138	0.7195	1.4269	0.9958	0.7067	0.8777
1,0095	1.0115	2.0180	0.9916	0.9936	1.2412
1.0076	1.1321	2.2561	0.9897	1.1121	1.3877
1.0064	1.1910	2.3663	0.9886	1.1699	1.4555
1.0012	1.4323	2.8538	0.9834	1.4069	1.7553
	m=	1.99861		m=	1.25149
QSTD	b=	-0.00882	QA	b=	-0.00543
	r=	0.99997		r=	0.99997

Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/Pa)
Qstd= Vstd/ΔTime	Qa= Va/ΔTime
For subsequent flow ra	te calculations:
$Qstd = \frac{1}{m} \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	$Qa = 1/m \left(\sqrt{\Delta H \left(Ta/Pa \right)} \right) - t$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
ken and	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (*K)
Pa: actual bar	ometric 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

ch Environmental, Inc.

5 South Miami Avenue

lage of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009



				J	. ,	•	,	
Location :		CMA6a			Calbratio	on Date	:	18-Feb-19
Equipment no.	ı	HVS013			Calbratio	on Due Date	:	20-Apr-19
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER					
				Ambient Condition				
Temperature, T _a		291		Kelvin Pressure, P	a	1	015	mmHg
			Orifice Tr	ansfer Standard Infor	mation			
Equipment No.		Ori0005		Slope, m _c 1.998	61	Intercept, bc		-0.00882
Last Calibration Date		11-Jan-1	9	(H x	P _a / 101	3.3 x 298 /	T _a) ^{1/2}	2
Next Calibration Date		11-Jan-2	0	=	m _c x	Q _{std} + b _c		
				Calibration of TSP				
Calibration	Man	ometer R	eading	Q _{std}	Continu	uous Flow		IC
Point	H (i	inches of	water)	(m ³ / min.)	Recorder, W		(W(P _a /1013.3x298/T _a) ^{1/2} /35.31	
	(up)	(down)	(difference)	X-axis	(0	CFM)		Y-axis
1	1.4	1.4	2.8	0.8524		28	28.3585	
2	2.1	2.1	4.2	1.0430		37		37.4738
3	3.4	3.4	6.8	1.3259		45		45.5762
4	4.4	4.4	8.8	1.5077		52	<u> </u>	52.6658
5	5.5	5.5	11.0	1.6851		59		59.7555
By Linear Regression of	Y on X							
	Slope, m	=	36.4	334 Int	ercept, b =	-1.	.9709	
Correlation Co		=	0.99					
Calibration	Accepted	=	Yes/	\0 **				
* if Correlation Coefficien	nt < 0.990,	check and	l recalibration	n again.				
** Delete as appropriate.								
Remarks :								
		long Law			Charles	l by		Chan Ka Chun
Calibrated by		lenry Lau 8-Feb-19			Checked Date	ı by	·	18-Feb-19



Location :		CMA5b				Calbratio	on Date	:	18-Feb-19		
Equipment no.	I	HVS010				Calbratio	on Due Date	:	20-Apr-19		
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER								
				Ambient C	ondition						
Temperature, T _a		291		Kelvin	Pressure, P	a	1	015	mmHg		
			Orifice Tr	ansfer Sta	ndard Inforr	mation					
Equipment No.		Ori0005		Slope, m _c	1.9986	61	Intercept, bc		-0.00882		
Last Calibration Date		11-Jan-1	9		(H x	P _a / 101	3.3 x 298 /	T _a)	1/2		
Next Calibration Date		11-Jan-2	0		=	m _c x	$Q_{std} + b_c$				
				Calibratio	n of TSP						
Calibration	Mar	ometer Re	eading	Q	std	Continu	ious Flow		IC		
Point	H (i	inches of v	water)	(m ³ /	min.)	Reco	rder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)			
	(up)	(down)	(difference)	X -	axis	(C	FM)		Y-axis		
1	1.2	1.2	2.4	0.7895		37		37.4738			
2	2.0	2.0	4.0	1.0179		42		42.5378			
3	3.1	3.1	6.2	1.2	662		50		50.6402		
4	4.0	4.0	8.0	1.4	377		56		56.7171		
5	5.0	5.0	10.0	1.6	6069		61		61.7811		
By Linear Regression of	Y on X										
	Slope, m	=	30.4	544	Inte	ercept, b =	12	.5644			
Correlation Co	pefficient*	=	0.99	72							
Calibration	Accepted	=	Yes/	\0 **							
* if Correlation Coefficien	nt ~ 0 000	check and	l recalibration	a again							
ii Correlation Coemiciei	n < 0.990,	CHECK and	recalibration	i agaiii.							
** Delete as appropriate.											
Remarks :											
Calibrated by	н	lenry Lau				Checked	by	:	Chan Ka Chun		
Date :	1	8-Feb-19				Date		:	18-Feb-19		



				•			•	,	
Location :		CMA4a				Calbrati	ion Date	:	18-Feb-19
Equipment no.		HVS004				Calbrati	ion Due Date	:	20-Apr-19
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient Co	ondition				
Temperature, T _a		291		Kelvin F	Pressure, P	a	1	015	mmHg
			Orifice Tr	ansfer Star	ndard Inforr	mation			
Equipment No.		Ori0005		Slope, m _c	1.9986		Intercept, bc	T	-0.00882
Last Calibration Date		11-Jan-1		- 1, 3, 6			13.3 x 298 /		
Next Calibration Date		11-Jan-2			=		$Q_{std} + b_c$	· a/	
				Calibration	-4 TCD		0.00		
Calibration	Mor	ometer B	anding.			Contin	uous Flow		IC
Point		nometer Re		Q _{std}			order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
romt	(up)	(down)	(difference)	(m³ / min.) X-axis		(CFM)		(**(1-;	Y-axis
1	1.4	1.4	2.8			22			22.2817
2	2.2	2.2	4.4	0.8524 1.0674			33		33.4225
3	2.9	2.9	5.8		248	40			40.5122
4	4.1	4.1	8.2		555		47		47.6018
5	5.8	5.8	11.6	1.73		58		58.7427	
By Linear Regression of									
	Slope, m	=	40.4	458	Inte	ercept, b =	· -10).6963	,
Correlation Co	pefficient*	=	0.99	957					
Calibration	Accepted	=	Yes/	\0 **					
* if Correlation Coefficier	nt < 0.990,	check and	l recalibration	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by	Н	lenry Lau				Checke	d by	:	Chan Ka Chun
Date :	1	8-Feb-19				Date		: -	18-Feb-19



				J		• `	•	,	
Location :		CMA3a				Calbrati	ion Date	:	18-Feb-19
Equipment no.	ı	HVS012				Calbrati	ion Due Date	:	20-Apr-19
CALIBRATION OF CON	ITINUOUS	FLOW R	CORDER						
				Ambient Condit	ion				
Temperature, T _a		291		Kelvin Press	ure, P _a		1	015	mmHg
			Orifice Tr	ansfer Standard	l Inform	nation	•		
Equipment No.		Ori0005		Slope, m _c	1.9986		Intercept, bc		-0.00882
Last Calibration Date		11-Jan-1					13.3 x 298 /	T.)	
Next Calibration Date		11-Jan-2			=		$Q_{std} + b_c$	·a/	
				0.11 (1 (7	·0D		- Std C		
Orlibration		B	di	Calibration of T	SP	0	51		IC
Calibration		nometer R	_				uous Flow	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
Point		inches of		(m ³ / min.)			order, W	(VV(P	Y-axis
4	(up)	(down) 1.3	(difference)			30		30.3841	
1	1.3	2.0	2.6	0.8215				38.4866	
3	2.0	3.1	4.0	1.0179			38		
4	3.1	4.0	6.2	1.2662			49		44.5634
5	4.0 5.0	5.0	10.0	1.4377			54		49.6274 54.6914
		5.0	10.0	1.6069			54		54.6914
By Linear Regression of	Slope, m	=	29.9	202	Into	rcept, b =	. 6	6497	
Correlation Co		=	0.99		iiile	тсері, в =		0431	
Calibration		=	Yes/ I						
Campianon	riocopica	_	103/1						
* if Correlation Coefficier	nt < 0.990,	check and	l recalibration	n again.					
** Delete as appropriate.									
Damarka									
Remarks :									
O-19	Н	lenry Lau				Checke	d by	:	Chan Ka Chun
Calibrated by		8-Feb-19				Date	-	: -	18-Feb-19
Date									



				J	•	•	•	,	
Location :		CMA2a			Ca	Ibration Date	:	18-Feb-19	
Equipment no.	ı	HVS002			Ca	Ilbration Due Dat	e :	20-Apr-19	
							•		
CALIBRATION OF CON	ITINUOUS	FLOW RE	CORDER						
				Ambient Condition	n				
Temperature, T _a		291		Kelvin Pressu	re, P _a		1015	5 mmHg	
			Orifice Tr	ansfer Standard I	nformatio	n			
Equipment No.		Ori0005			.99861	Intercept,	bc	-0.00882	
Last Calibration Date		11-Jan-1			HxPa	/ 1013.3 x 29		,) ^{1/2}	
Next Calibration Date		11-Jan-2	0	,		n _c x Q _{std} + b		,	
				Calibration of TS	D				
Calibration	Man	nometer Re	eading	Q _{std}		ontinuous Flow	T	IC	
Point		inches of v		(m ³ / min.)		Recorder, W	(W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
. 5	(up)	(down)	(difference)			(CFM)	(Y-axis	
1	1.7	1.7	3.4	0.9388		24		24.3073	
2	2.4	2.4	4.8	1.1147		33		33.4225	
3	4.0	4.0	8.0	1.4377		42		42.5378	
4	5.1	5.1	10.2	1.6229		50		50.6402	
5	6.2	6.2	12.4	1.7889		58		58.7427	
By Linear Regression of	Y on X								
	Slope, m	=	38.5	348	Intercept	, b =	-11.27	06	
Correlation Co	pefficient*	=	0.99	149					
Calibration	Accepted	=	Yes/f	√0 **					
* if Correlation Coefficier	st ~ 0 000	check and	l recalibration	a again					
		CHECK AND	recalibration	r agairi.					
** Delete as appropriate.									
Remarks :									
Calibrated by	н	lenry Lau			Ch	ecked by	:	Chan Ka Chun	
Date	1	8-Feb-19			Da	ite	:	18-Feb-19	



				J	. ,	•	,		
Location :		CMA1b			Calbra	tion Date	:	18-Feb-19	
Equipment no.	ı	HVS001			Calbra	tion Due Date	:	20-Apr-19	
CALIBRATION OF CON	ITINUOUS	FLOW RE	CORDER						
				Ambient Condition					
Temperature, T _a		291		Kelvin Pressure,	Pa	1	015	mmHg	
			Orifice Tr	ansfer Standard Info	rmation				
Equipment No.		Ori0005		Slope, m _c 1.99		Intercept, bc		-0.00882	
Last Calibration Date		11-Jan-1			x P _a / 10	13.3 x 298 /	T _a)	1/2	
Next Calibration Date		11-Jan-2	0			$x Q_{std} + b_c$	α,		
				Calibration of TSP					
Calibration	Man	nometer Re	eading	Q _{std}	Conti	nuous Flow		IC	
Point		inches of v		(m ³ / min.)		order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)		
. 5	(up)	(down)	(difference)			(CFM)	(**(* a	Y-axis	
1	1.4	1.4	2.8	0.8524		22		22.2817	
2	2.4	2.4	4.8	1.1147		34		34.4354	
3	3.6	3.6	7.2	1.3642		42		42.5378	
4	4.6	4.6	9.2	1.5415		47		47.6018	
5	5.9	5.9	11.8	1.7452		54		54.6914	
By Linear Regression of	Y on X								
	Slope, m	=	35.4	579 I	ntercept, b	= -6	.6215		
Correlation Co	pefficient*	=	0.99	958				-	
Calibration	Accepted	=	Yes/f	√0 **					
* if Correlation Coefficier	st ~ 0 000	check and	l recalibration	a again					
ii Correlation Coefficier	11 < 0.990,	CHECK and	recalibration	i agaiii.					
** Delete as appropriate.									
Remarks :									
Calibrated by	н	lenry Lau			Checke	ed by	:	Chan Ka Chun	
Date	1	8-Feb-19			Date		:	18-Feb-19	



綜 合 試 驗 有 限 公 司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黃竹坑道37號利達中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6880 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:

18CA1114 02

Page

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer: Type/Model No.: B&K 2236

B&K 4188

Serial/Equipment No.: Adaptors used:

2100736

2288941

Item submitted by

Customer Name:

Lam Environmental Service Ltd.

Address of Customer.

Request No.:

Date of receipt:

14-Nov-2018

Date of test:

15-Nov-2018

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4228 Serial No.

Expiry Date:

Traceable to: CIGISMEC

Signal generator Signal generator

DS 360 DS 360

2288444 33873 61227

23-Aug-2019 24-Apr-2019 23-Apr-2019

CEPREI CEPREI

Ambient conditions

Temperature:

20 ± 1 °C 50 ± 10 %

Relative humidity: Air pressure:

1000 ± 5 hPa

Test specifications

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

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

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 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.

Feng Junqi

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date: 15-Nov-2018

Company Chop:

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.

O Soils & Materials Engineering Co., Ltd.

Form No CARP153-1/Issue 1/flow C/01/02/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港貴竹坑道37號利億中心12機 12F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com

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



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA1114 02

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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.

Self-generated noise	0.3 1.0 2.0 0.3	2.1
Lin Pass Linearity range for Leq At reference range , Step 5 dB at 4 kHz Pass Reference SPL on all other ranges Pass 2 dB below upper limit of each range Pass 2 dB above lower limit of each range Pass Linearity range for SPL At reference range , Step 5 dB at 4 kHz Pass Frequency weightings A Pass C Pass Lin Pass Time weightings Single Burst Fast Pass Single Burst Slow Pass Peak response Single 100 µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10² at 4kHz Pass	2.0 0.3	
At reference range , Step 5 dB at 4 kHz	0.3	0.0
Reference SPL on all other ranges Pass 2 dB below upper limit of each range Pass 2 dB above lower limit of each range Pass Pass		2.2
Reference SPL on all other ranges Pass 2 dB below upper limit of each range Pass 2 dB above lower limit of each range Pass Elinearity range for SPL At reference range Step 5 dB at 4 kHz Pass Pass	0.0	
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 Frequency weightings A Pass C Pass Lin Pass Time weightings Single Burst Fast Pass Single Burst Slow Pass Peak response Single 100µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
Frequency weightings A Pass C Pass Lin Pass Time weightings Single Burst Fast Pass Single Burst Slow Pass Peak response Single 100µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
C Pass Lin Pass Time weightings Single Burst Fast Pass Single Burst Slow Pass Peak response Single 100µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
C Pass Lin Pass Time weightings Single Burst Fast Pass Single Burst Slow Pass Peak response Single 100µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10² at 4kHz Pass	0.3	
Time weightings Single Burst Fast Single Burst Slow Pass Pass Peak response Single 100µs rectangular pulse Pass Pass Pass R.M.S. accuracy Crest factor of 3 Pass Pass Pass Pass Pass Pass Pass Pass	0.3	
Single Burst Slow Pass Peak response Single 100µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
Peak response Single 100µs rectangular pulse Pass R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10³ at 4kHz Pass	0.3	
R.M.S. accuracy Crest factor of 3 Pass Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/103 at 4kHz Pass	0.3	
Time weighting I Single burst 5 ms at 2000 Hz Pass Repeated at frequency of 100 Hz Pass Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
Repeated at frequency of 100 Hz. Pass Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
Time averaging 1 ms burst duty factor 1/10 ³ at 4kHz Pass	0.3	
	0.3	
2 : 10 3 m 10 20 20 20 20 20 20 20 20 20 20 20 20 20	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	

Response to associated sound calibrator 3,

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:

End

Checked by:

Date:

Fung Chi Yip 15-Nov-2018

Shek Kwong Tat

15-Nov-2018 Date:

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/frey C/01/02/2007

Calibration Certificate

Certificate Number 2018010851

Customer: LAM Environmental Services Ltd 11/F Centre Point 181-185 Gloucester Road Wanchai, , Hong Kong

CAL200 Model Number 13098 Serial Number Pass Test Results

Inoperable Initial Condition

Description Larson Davis CAL200 Acoustic Calibrator Procedure Number D0001.8386 Scott Montgomery Technician Calibration Date 29 Oct 2018

Calibration Due 23 Temperature 34 Humidity 101.2 kPa Static Pressure

°C ±0.3°C %RH ±3 %RH ± 1 kPa

Evaluation Method The data is aguired by the insert voltage calibration method using the reference microphone's open circuit sensitivity. Data reported in dB re 20 µPa.

Compliant to Manufacturer Specifications per D0001.8190 and the following standards: Compliance Standards

ANSI \$1.40-2006 IEC 60942:2017

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Standards Used	1		
Cal Date	Cal Due	Cal Standard	
09/06/2018	09/06/2019	001021	
04/10/2018	04/10/2019	001051	
03/07/2018	03/07/2019	005446	
09/20/2018	09/20/2019	006506	
08/07/2018	08/07/2019	006507	
05/10/2018	05/10/2019	006510	
07/18/2018	07/18/2019	007368	
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綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黄竹地链37號利建中心12樓 12年, Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong, E-mail: smec梁cigismec.com Website: www.cigismec.com

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



CERTIFICATE OF CALIBRATION

Certificate No.:

18CA1220 02

Page:

2

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: Larson Davis CAL200

Serial/Equipment No.:

13128

Adaptors used:

-

Item submitted by

Curstomer:

Lam Environmental Service Ltd.

Address of Customer:

Request No.: Date of receipt:

20-Dec-2018

Date of test:

28-Dec-2018

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	20-Apr-2019	SCL
Preamplifier	B&K 2673	2239857	27-Apr-2019	CEPREI
Measuring amplifier	B&K 2610	2346941	08-May-2019	CEPREI
Signal generator	DS 360	33873	24-Apr-2019	CEPREI
Digital multi-meter	34401A	US36087050	23-Apr-2019	CEPREI
Audio analyzer	8903B	GB41300350	23-Apr-2019	CEPREI
Universal counter	53132A	MY40003662	24-Apr-2019	CEPREI

Ambient conditions

Temperature:

20 ± 1 °C

Relative humidity:

50 ± 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.
- 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.

Fend Jungi

Approved Signatory:

Date:

29-Dec-2018

Company Chop:

Comments: The results reported in this conflicate 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. CARP10G-1/Issue 1/Rev. 0101/03/2007



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港黄竹坑链37號利速中心12樓 12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA1220 02

Page:

3

2

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	93.84	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 = 0.006 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 = 999.4 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

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 = 0.4%

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

camprated by

Checked by

Date: Fung Chi Yo

Date:

Shok Kwong Tat 29-Dec-2018

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.

© Soils & Materials Engineering Co., Ltd.

Form No. CARP158-2/Issue 1/Rev.C/01/05/2005



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplied	l by customer:		
CONTACT:	MR. CHAN KA CHUN	JOB REFERENCE NO.:	72707052 D221/2/02
CLIENT:	LAM GEOTECHNICS LIMITED	OUD REFERENCE NO	22787053-B23V2602
DATE RECEIVED:	31/01/2019		
DATE OF ISSUE:	31/01/2019		
ADDRESS:	11/F, CENTRE POINT, 181-185, G	LOUGESTED DOAD	
	WANCHAI, HONG KONG	LOUCESTER ROAD,	
PROJECT:			
METHOD OF PERF	ORMANCE CHECK/ CALIBRATION	ON:	
Ref: APHA22nd ed 21	30B		
COMMENTS			
It is certified that the ite	em under performance check/calibration	has been calibrated/checked by	Corresponding collibrated
equipment in the labora	uory.		
Maximum Tolerance an	nd calibration frequency stated in the re	nort unless otherwise stated the	internal control
FT Laboratories Ltd wi	ll be followed	port, unless otherwise stated, the	e internal acceptance criteria o
	n so lonowed.		
Scope of Test:		Turbidity	
Equipment Type:		Turbidimeter	
Brand Name:		Xin Rui	
Model No.:			
viouei ivo.:		WGZ-3B	
Serial No.:		WGZ-3B 1807079	
		1807079	
Serial No.: Equipment No.:		1807079	
Serial No.:		1807079	
Serial No.: Equipment No.: Date of Calibration: Remarks:	Results apply to sample(s) as submittee	1807079 31/01/2019	
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Page 1 of 2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: 22787053-B23V2602

DATE OF ISSUE: 31/01/2019

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807079	
Equipment No.:		
Date of Calibration:	31/01/2019	
Date of next Calibation:	30/04/2019	
Lab ID:	H190048-02	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.94	-1.5%	
10	10.01	0.1%	
40	39.89	-0.3%	
100	98.91	-1.1%	
400	396	-1.0%	
000	1000	0.0%	
Domester WD' 1 1 1 2 11 11	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



ALS Technichem (HK) Pty Ltd

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street, Kwai Chung N.T., Hong Kong T: +852 2610 1044 | F: +852 2610 2021

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

CONTACT: MR CHAN KA CHUN WORK ORDER: HK1901813

CLIENT: LAM ENVIRONMENTAL LTD

ADDRESS: 11/F, CENTRE POINT, SUB-BATCH: 0

181 - 185 GLOUCESTER ROADLABORATORY:HONG KONGWAN CHAIDATE RECEIVED:10- Jan- 2019

DATE OF ISSUE: 11- Feb- 2019

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Dissolved Oxygen, Salinity and Temperature

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus

Serial No.: 14K100322

Equipment No.: --

Date of Calibration: 18 January, 2019

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr Chan Su Ming, Vico Manager - Inorganic

Ma Si

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1901813

SUB- BATCH: 0

DATE OF ISSUE: 11- Feb- 2019

CLIENT: LAM ENVIRONMENTAL LTD

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus Serial No.: 14K100322

Equipment No.: --

Date of Calibration: 18 January, 2019 Date of Next Calibration: 18 April, 2019

PARAMETERS:

Dissolved Oxygen Method Ref: APHA (21st edition), 4500- O: G

Expected Reading (mg/ L)	Displayed Reading (mg/ L)	Tolerance (mg/ L)
2.47	2.37	- 0.10
5.50	5.43	- 0.07
8.81	8.94	+ 0.13
	Tolerance Limit (mg/L)	±0.20

Salinity Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	10.73	+7.3
20	19.43	- 2.9
30	30.69	+2.3
	Tolerance Limit (%)	± 10.0

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	9.0	- 1.0
22.0	21.6	- 0.4
41.5	42.2	+0.7
	Tolerance Limit (°C)	± 2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless

of equipment precision or significant figures.

Mr Chan Siu Ming, Vico Manager - Inorganic

Ra Ai



ALS Technichem (HK) Pty Ltd

11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street, Kwai Chung N.T., Hong Kong T: +852 2610 1044 | F: +852 2610 2021

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

CONTACT: MR CHAN KA CHUN WORK ORDER: HK1903901

CLIENT: LAM ENVIRONMENTAL LTD

ADDRESS: 11/F, CENTRE POINT, SUB-BATCH: 0

181 - 185 GLOUCESTER ROAD LABORATORY: HONG KONG WAN CHAI DATE RECEIVED: 25-Jan-2019

DATE OF ISSUE: 30-Jan-2019

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: pH Value and Temperature

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus Serial No.: 14K100322

Equipment No.: --

Date of Calibration: 30 January, 2019

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Ms. Lin Wai Yu

Assistant Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1903901

SUB- BATCH:

DATE OF ISSUE: 30-Jan-2019

CLIENT: LAM ENVIRONMENTAL LTD

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus Serial No.: 14K100322

Equipment No.: --

Date of Calibration: 30 January, 2019 Date of Next Calibration: 30 April, 2019

PARAMETERS:

pH Value Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.14	+0.14
7.0	6.99	-0.01
10.0	9.80	-0.20
	Tolerance Limit (pH unit)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	9.0	-1.0
22.0	21.6	-0.4
41.5	42.2	+0.7
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

N:5

Ms. Lin Wai Yu

Assistant Manager - Inorganic



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

CONTACT: MR CHAN KA CHUN WORK ORDER: HK1901812

CLIENT: LAM ENVIRONMENTAL LTD

ADDRESS: 11/F, CENTRE POINT, SUB- BATCH: 0

181 - 185 GLOUCESTER ROADLABORATORY:HONG KONGWAN CHAIDATE RECEIVED:10- Jan- 2019

an- 2019 **DATE OF ISSUE**: 18- لهاء - 2019

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test: Dissolved Oxygen, pH Value, Salinity and Temperature

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus

Serial No.: 17F100236

Equipment No.: --

Date of Calibration: 18 January, 2019

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr Chan Su Ming, Vico Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1901812

SUB- BATCH:

DATE OF ISSUE: 18- Jan - 2019

CLIENT: LAM ENVIRONMENTAL LTD

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus Serial No.: 17F100236

Equipment No.: --

Date of Calibration: 18 January, 2019 Date of Next Calibration: 18 April, 2019

PARAMETERS:

Dissolved Oxygen Method Ref: APHA (21st edition), 4500- O: G

Expected Reading (mg/ L)	Displayed Reading (mg/ L)	Tolerance (mg/ L)
2.65	2.45	- 0.20
6.02	5.92	- 0.10
8.88	8.94	+0.06
	Tolerance Limit (mg/L)	±0.20

pH Value Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.03	+ 0.03
7.0	7.08	+ 0.08
10.0	10.16	+ 0.16
	Tolerance Limit (pH unit)	± 0.20

Salinity Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	10.20	+2.0
20	19.68	- 1.6
30	29.74	- 0.9
	Tolerance Limit (%)	± 10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vico Manager - Inorganic

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1901812

SUB-BATCH: 0

DATE OF ISSUE: 18-Jan-2019

CLIENT: LAM ENVIRONMENTAL LTD

Equipment Type: Multifunctional Meter

Brand Name: YSI

Model No.: Professional Plus Serial No.: 17F100236

Equipment No.: --

Date of Calibration: 18 January, 2019 Date of Next Calibration: 18 April, 2019

PARAMETERS:

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	9.5	- 0.5
22.0	21.3	- 0.7
41.5	42.3	+0.8
	Tolerance Limit (°C)	± 2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Chan Siu Ming, Vico Manager - Inorganic

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