CERTIFICATE OF CALIBRATION

N/A

FOR LARSON DAVIS PRECISION INTEGRATING AND LOGGING SOUND LEVEL METER

Model 820 Serial No. XXX
ID No. N/A
With Microphone Model 2560 Serial No. XXX
With Preamplifier Model PRM828 Serial No. XXX
P.O. No. N/A

Customer: Odin Metrology, Inc.
Thousand Oaks, CA 91320

was tested and met factory specifications at the points tested.

Complies to: ANSI S1.4-1983 Type 1; IEC 651-1979 Type 1

on 21 DEC 2011

BY HAROLD LYNCH Service Manager

As received condition: Within Specification. Re-calibration due on: **21 DEC 2012**

Certified References*									
Mfg.	<u>Type</u>	Serial No.	Cal Date	Due Date					
B&K	1049	1288946	07 NOV 2011	07 NOV 2012					
B&K	2636	1601487	23 MAY 2012	23 MAY 2013					
B&K	4226	1774068	15 MAR 2012	15 MAR 2013					
B&K	4231	2094472	28 FEB 2012	28 FEB 2013					
HP	34401A	MY41031678	30 DEC 2011	30 DEC 2012					
HP	3458A	2823A17713	17 JUL 2012	17 JUL 2013					
	Performed in Compliance with ANSI, NCSL Z-540-1, 1994								
	and ISO 17025, ISO 9001:2008 Certification NQA No. 11252								
			e of Standards and Technol	ogy).					

Note: For calibration data see enclosed pages.

The data represent both "as found" and "as left" condition.

Reference Test Procedure: ACCT Procedure 812-820 Ver 3.5.0

Temperature	Relative Humidity	Barometric Pressure
23 °C	30 %	989.83 hPa

Note: This calibration report shall not be reproduced, except in full, without written consent by Odin Metrology, Inc.. Signed:

ODIN METROLOGY, INC.

CALIBRATION OF SOUND & VIBRATION INSTRUMENTATION 3533 OLD CONEJO ROAD, SUITE 125 THOUSAND OAKS CA 91320 PHONE: (805) 375-0830 FAX: (805) 375-0405

Odin Metrology, Inc.

3533 Old Conejo Road, Suite 125 Thousand Oaks, CA 91320 Phone: (805) 375-0830, Fax: (805) 375-0405 www.OdinMetrology.com

Calibration data for

Larson Davis Precision Integrating and Logging Sound Level Meter Type 820# XXX, ID# N/A

with Preamplifier 828# XXX and Microphone 2560# XXX

Performed on December 21, 2011

for

Odin Metrology, Inc.

PO#: N/A Certificate#: N/A Calibration performed by: HL Environmental Conditions
Relative humidity: 30%
Ambient temperature: 23°C
Ambient pressure: 989.83 hPa

The following calibration was performed per ACCT Procedure 812-820 Version 3.5.0.

The data represent both the "As Found" and the "As Left" conditions.

Standard Section (Type 1) Test Result Page No. **ANSI S1.4 IEC 651** Reference Only Internal Clock **Pass** Sensitivity Verification with Acoustic Calibrator Reference Only See Data Acoustic Frequency Response with Microphone **Pass** 2 5.1, 5.2 6.1, 6.2 2 Self-Generated Noise 5.6 **Pass Output Impedance** 9.2 3 10.2 **Pass** 3 AC Full Scale Output Voltage Reference Only See Data DC Full Scale Output Voltage Reference Only 3 See Data 3 DC Linearity Reference Only See Data Overload Indication **Pass** 4 8.3.1 9.3.1 4 Peak Characteristic 6.5 7.5 **Pass** 4 **Decay Time Constants** 6.2, 6.3 7.2, 7.3 **Pass** Steady-State Response 5 6.4 7.4 **Pass** Frequency Response 5.1, 5.2 6.1. 6.2 A-Weighted 5 **Pass** C-Weighted **Pass** Toneburst Response Fast time weighting 7.2 **Pass** 6.2 Slow time weighting 7.2 6.2 **Pass** Impulse time weighting (single) 6.3 7.3 **Pass** 6.3 7.3 Impulse time weighting (continuous) **Pass** Differential Level Linearity 6.9, 6.10 7.9, 7.10 A-Weighted 8 **Pass** C-Weighted 8 Pass

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Internal Clock

Date and time are transferred from SLM, then the SLM date and time are set according to Odin Metrology's clock and the date and time are transferred from the SLM a second time. Time zones (with minor simplifications) and DST are obeyed.

Local Date/Time: Date and time according to Odin Metrology's clock (Pacific Standard Time) at the time of the clock setting

Location: US state or other location for which the SLM clock is set (some time zone simplifications are made)

UTC Offset: UTC offset for the given location

Daylight Saving Time: whether DST is currently observed for the given location

SLM Clock Before Set: readouts of the SLM's system date and time before any changes are made

SLM Clock After Set: readouts of the SLM's system date and time after setting

	Local Date/Time	Location	UTC Offset (Hr:Min)	Daylight Saving Time	SLM Clock Before Set	SLM Clock After Set
-	Wed 21Dec2011 07:23:45	California	-8:00	No	Wed 21Dec2011 07:23:07	Wed 21Dec2011 07:23:48

Sensitivity Verification with Acoustic Calibrator

A sound level calibrator is mounted on the sound level meter and the internal calibration is started. The SLM indication is recorded before and after calibration.

Calibrator Freq.: the frequency of the signal generated by the sound level calibrator

Calibrator SPL: the SPL of the signal generated by the sound level calibrator

SLM SPL Before: SLM indication before internal calibration sequence

SLM SPL After: SLM indication after internal calibration sequence

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Performed with microphone 2560# XXX, preamplifier 828# XXX, and calibrator 4231# 1770857.

Calibrator	Calibrator	SLM SPL	SLM SPL	Uncertainty
Freq. (Hz)	SPL (dB)	Before (dB)	After (dB)	(dB)
1,000.0	114.0	114.21	114.00	0.40

Acoustic Frequency Response with Microphone (S1.4 § 5.1, 5.2, 651 § 6.1, 6.2)

The acoustic frequency response is tested using a multifunction acoustical calibrator type 4226 in C frequency weighting. If a windscreen is used, these data are to be corrected.

Frequency: the frequency of the signal to the sound level meter (frequency of 4226 multifunction acoustic calibrator)

Data Found: the value the sound level meter actually indicates (this is a pressure measurement)

RI Corr.: random incidence correction for microphone to be added to displayed SLM (pressure) value

Corrected Resp.: SLM's reading plus the correction indicated

Nominal Value: what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Tolerance: the acceptable range, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Uncertainty: maximum expanded uncertainty of measurement according to IEC with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Performed with microphone 2560# XXX, preamplifier 828# XXX, and calibrator 4226# 2141942.

Frequency	Data	RI Corr.	Corrected	Nominal	Tolerar	nce (dB)	Uncertainty	Deviation	Pass/Fail
(Hz)	Found (dB)	(dB)	Resp. (dB)	Value (dB)	Minimum	Maximum	(dB)	(dB)	rass/raii
31.5	110.95	0.00	110.95	110.99	109.64	112.34		-0.04	Pass
63.0	113.12	0.00	113.12	113.18	112.33	114.03		-0.06	Pass
125.0	113.75	0.00	113.75	113.83	112.98	114.68	0.15	-0.08	Pass
250.0	114.00	0.00	114.00	114.00	113.15	114.85		0.00	Pass
500.0	114.00	0.00	114.00	114.03	113.18	114.88		-0.03	Pass
1,000.0				F	Reference—				
2,000.0	113.75	0.05	113.80	113.83	112.98	114.68	0.15	-0.03	Pass
4,000.0	113.00	0.25	113.25	113.18	112.33	114.03	0.15	0.07	Pass
8,000.0	109.52	0.60	110.12	110.99	108.24	112.24	0.25	-0.87	Pass
12,500.0	100.88	1.40	102.28	107.76	102.26	110.26	0.50	-5.48	Pass

Self-Generated Noise (S1.4 § 5.6, 651 § 6.6)

To measure inherent noise, the input to the SLM is terminated with a shorted dummy microphone of equal capacitance.

Frequency Weighting: the frequency weighting setting on the sound level meter

Tolerance: the acceptable range, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Data Found: the 30-second Leq value the sound level meter indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Pass/Fail	Uncertainty	Data	Tolerance	Frequency	
1 ass/1 all	(dB)	Found (dB)	(< dB)	Weighting	
Pass	0.003	13.30	30.00	Α	
Pass	0.003	12.83	30.00	С	

Output Impedance (S1.4 § 9.2, 651 § 10.2)

A reference signal is applied to the sound level meter and the output is shorted. The indicated level may not be affected by more than the specified tolerance.

Frequency: the frequency of the signal to the sound level meter

Input Level: the level (amplitude) of the signal to the sound level meter

Nominal Value: the value the sound level meter should indicate

Tolerance: the acceptable difference from nominal, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Frequency	Input	Nominal	Tolerance	Data	Uncertainty	Deviation	Pass/Fail
(kHz)	Level (dB)	Value (dB)	(± dB)	Found (dB)	(dB)	(dB)	Fass/Fall
1.0	114.0	114.0	0.10	114.09	0.10	0.09	Pass

AC Full Scale Output Voltage

The sound level meter is set up to indicate full-scale on the display and the AC output is measured. Input frequency is 1,000 Hz.

SPL Rdg.: the input to the sound level meter is adjusted so that it indicates this full-scale value

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

SPL	Data Found	Uncertainty
Rdg. (dB)	(mV)	(mV)
129.91	2610.16	0.10

DC Full Scale Output Voltage

The sound level meter is set up to indicate full-scale on the display and the DC output is measured. Input frequency is 1,000 Hz.

SPL Rdg.: the input to the sound level meter is adjusted so that it indicates this full-scale value

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

SPL	Data Found	Uncertainty
Rdg. (dB)	(mV)	(mV)
129.85	11.99	0.10

DC Linearity

The sound level meter is set up to indicate full-scale on the display and the DC-output voltage is recorded in decreasing 10-dB steps.

Rel. Input Level: the level (amplitude) of the signal to the sound level meter, relative to the reference of full-scale

Data Found: the measured DC-output from the SLM

Sensitivity: the calculated sensitivity based on the DC-outputs at the levels of FSD and FSD-80 dB.

a schollivity b	tile balealatet	Jonottivity.	ated sensitivity based	OII tille D
Uncertainty	Data Found	Rel. Input	nd Uncertainty Ser	nsitivity
(mV)	(mV)	Level (dB)	(mV) (m	V/dB)
	2,418.06	0.0	6	
	2,344.65	-10.0	5	
	2,145.61	-20.0	1	
0.40	1,940.93	-30.0	3 0.40	
	1,743.21	-40.0	1	
	1,541.55	-50.0	5 1	8.85
	1,336.92	-60.0	2	
	1,136.83	-70.0	3	
0.05	936.77	-80.0	0.05	
0.05	730.83	-90.0	0.05	
	532.62	-100.0	:	

Overload Indication (S1.4 § 8.3.1, 651 § 9.3.1)

SLM overload is expected when the display value exceeds the tolerance of the inverse A-weighted test (an overload indication when overload is not expected is not a failure condition). This test will not continue past 63.1 Hz as a precautionary measure.

Frequency: the frequency of the signal to the sound level meter

Rel. Input Level: input level to SLM relative to reference level (FSD-5 dB) at 1,000 Hz; equal to the A-weighted frequency curve

Tolerance: tolerance of the A-weighted test at the stated frequency, according to ANSI S1.4 and IEC 651

Data Found: the value the SLM indicates at the stated frequency and input level

Overload Expected: yes or no depending on if the SLM indication has exceed the stated tolerance

Overload Occurred: whether or not the SLM indicated an overload condition

Frequency	Rel. Input	Tolerar	nce (dB)	Data	Ove	load	Pass/Fail
(Hz)	Level (dB)	Minimum	Maximum	Found (dB)	Expected	Occurred	1 833/1 811
1,000.0				-Reference-			
794.3	8.0	124.0	126.0	124.97	No	Yes	N/A
631.0	1.9	124.0	126.0	124.72	No	Yes	N/A
501.2	3.2	124.0	126.0	124.34	No	Yes	N/A
398.1	4.8	124.0	126.0	123.96	Yes	Yes	Pass
316.2	6.6	124.0	126.0				
251.2	8.6	124.0	126.0				
199.5	10.9	124.0	126.0				
158.5	13.4	124.0	126.0				
125.9	16.1	124.0	126.0				
100.0	19.1	124.0	126.0				
79.4	22.5	124.0	126.0				
63.1	26.2	124.0	126.0				
50.1	30.2	124.0	126.0				
39.8	34.6	123.5	126.5				
31.6	39.4	123.5	126.5				
25.1	44.7	123.0	127.0				
20.0	50.5	122.5	127.5				

Peak Characteristic (S1.4 § 6.5, 651 § 7.5)

The rise time of the peak detector must be such that the response of a short duration (100 µs) rectangular pulse is similar to that of a reference pulse of 10 ms.

Polarity: indicates the bursts are the half-period above (positive) or below (negative) the zero level of the rectangular pulse

Input Level: the maximum peak indication on the SLM after a single reference burst is triggered

Tolerance: the acceptable range, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IFC 651

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Polarity	Input Level (dB)	Tolerance (≥ dB)	Data Found (dB)	Uncertainty (dB)	Pass/Fail
Positive	129.00 109.00	127.40 107.40	129.85 109.72	0.4	Pass Pass
Negative	129.00 109.00	127.40 107.40	129.98 109.98	0.4	Pass Pass

Decay Time Constants for Time Weightings Fast and Slow (S1.4 § 6.2, 6.3, 651 § 7.2, 7.3)

The decay rate of the display value on the sound level meter is measured after a steady 4.0 kHz signal is removed.

Time Weighting: the time weighting setting on the sound level meter

Nominal Rate: the decay rate the sound level meter should exhibit according to ANSI S1.4 and IEC 651

Tolerance: the acceptable range, including the stated uncertainty, for the decay rate for this time weighting

Measured Rate: the actual decay rate measured on the sound level meter

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Time	Tolerand	ce (dB/s)	Measured	Uncertainty	Pass/Fail
Weighting	Minimum	Maximum	Rate (dB/s)	(dB/s)	rass/raii
Fast	22.0	N/A	34.30	2.00	Pass
Slow	3.7	N/A	4.01	0.40	Pass
Impulse	2.4	3.4	2.75	N/A	Pass

Steady-State Response (S1.4 § 6.4, 651 § 7.4)

With reference to LAF at the SLM reference level indicated, the measurements of the other time weighting parameters may not differ by more than the specified tolerance. Test frequency is 1.0 kHz.

Time Weighting: time weighting setting on the SLM

Frequency Weighting: frequency weighting setting on the SLM

Input Level: the level (amplitude) of the signal to the sound level meter

Nominal Value: the value the sound level meter should indicate according to ANSI S1.4 and IEC 651

Tolerance: the acceptable difference from nominal, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Time	Input	Nominal	Tolerance	Data	Uncertainty	Deviation	Pass/Fail
Weightin	ng Level (dB)	Value (dB)	(± dB)	Found (dB)	(dB)	(dB)	rass/raii
Fast			-Reference		1	———Refe	rence
Slow	114.0	114.0	0.1	113.99	0.003	-0.01	Pass
Impuls	е	114.0	0.1	114.00		0.00	Pass

A-Frequency-Weighted Frequency Response (S1.4 § 5.1, 5.2, 651 § 6.1, 6.2)

The sound level meter's frequency response relative to the meter's reference level at 1,000 Hz is recorded by varying the frequency as specified.

Frequency: the frequency of the signal to the sound level meter

Nominal Value: the value the sound level meter should indicate according to ANSI S1.4 and IEC 651 (this is relative to the reference value at 1.0 kHz)

Tolerance: the acceptable range, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Dovidation: ti	io dinoronoo			dia the data			
Frequency			nce (dB)	Data	Uncertainty		Pass/Fail
(Hz)	Value (dB)	Minimum	Maximum	Found (dB)	(dB)	(dB)	
20.0	-50.5	-52.5	-48.5	-50.66		-0.20	Pass
25.1	-44.7	-46.2	-43.2	-44.69		0.01	Pass
31.6	-39.4	-40.4	-38.4	-39.68		-0.24	Pass
39.8	-34.6	-35.6	-33.6	-34.82		-0.19	Pass
50.1	-30.2	-30.7	-29.7	-30.31		-0.08	Pass
63.1	-26.2	-26.7	-25.7	-26.42	0.50	-0.23	Pass
79.4	-22.5	-23.0	-22.0	-22.77		-0.27	Pass
100.0	-19.1	-19.6	-18.6	-19.19		-0.05	Pass
125.9	-16.1	-16.6	-15.6	-16.03		0.07	Pass
158.5	-13.4	-13.9	-12.9	-13.36		-0.01	Pass
199.5	-10.9	-11.4	-10.4	-11.03		-0.16	Pass
251.2	-8.6	-9.2	-8.0	-8.78		-0.15	Pass
316.2	-6.6	-7.2	-6.0	-6.65		-0.04	Pass
398.1	-4.8	-5.4	-4.2	-4.78	0.40	0.03	Pass
501.2	-3.2	-3.8	-2.6	-3.16	0.40	0.07	Pass
631.0	-1.9	-2.5	-1.3	-1.78		0.12	Pass
794.3	-0.8	-1.4	-0.2	-0.79		0.03	Pass
1,000.0	0.0			Refere	nce		
1,258.9	0.6	0.0	1.2	0.47	0.40	-0.12	Pass
1,584.9	1.0	0.6	1.4	0.85		-0.13	Pass
1,995.3	1.2	0.8	1.6	1.10		-0.10	Pass
2,511.9	1.3	0.9	1.7	1.09		-0.18	Pass
3,162.3	1.2	0.8	1.6	1.10		-0.10	Pass
3,981.1	1.0	0.6	1.4	0.85	0.60	-0.12	Pass
5,011.9	0.5	-0.4	1.4	0.43		-0.12	Pass
6,309.6	-0.1	-1.5	0.8	-0.28		-0.16	Pass
7,943.3	-1.1	-3.5	-0.2	-1.15		-0.04	Pass
10,000.0	-2.5	-5.9	-1.1	-2.61		-0.12	Pass
12,589.3	-4.3	-9.3	-2.3	-4.53		-0.21	Pass
15,848.9	-6.6	N/A	-4.6	-6.90	1.00	-0.30	Pass
19,952.6	-9.3	N/A	-7.3	-9.79		-0.47	Pass

C-Frequency-Weighted Frequency Response (S1.4 § 5.1, 5.2, 651 § 6.1, 6.2)

The sound level meter's frequency response relative to the meter's reference level at 1,000 Hz is recorded by varying the frequency as specified.

Frequency: the frequency of the signal to the sound level meter

Nominal Value: the value the sound level meter should indicate according to ANSI S1.4 and IEC 651 (this is relative to the reference value at 1.0 kHz)

Tolerance: the acceptable range, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Deviation: the	ne difference	between the	nominal value	e and the data	found		
Frequency	Nominal	Tolerar	nce (dB)	Data	Uncertainty	Deviation	Pass/Fail
(Hz)	Value (dB)	Minimum	Maximum	Found (dB)	(dB)	(dB)	1 855/1 811
20.0	-6.2	-8.2	-4.2	-6.60		-0.36	Pass
25.1	-4.4	-5.9	-2.9	-4.68		-0.27	Pass
31.6	-3.0	-4.0	-2.0	-3.29		-0.28	Pass
39.8	-2.0	-3.0	-1.0	-2.24		-0.24	Pass
50.1	-1.3	-1.8	-0.8	-1.52		-0.23	Pass
63.1	-0.8	-1.3	-0.3	-1.09	0.50	-0.27	Pass
79.4	-0.5	-1.0	0.0	-0.64		-0.14	Pass
100.0	-0.3	-0.8	0.2	-0.49		-0.19	Pass
125.9	-0.2	-0.7	0.3	-0.27		-0.10	Pass
158.5	-0.1	-0.6	0.4	-0.14		-0.05	Pass
199.5	0.0	-0.5	0.5	-0.12		-0.09	Pass
251.2	0.0	-0.6	0.6	-0.11		-0.11	Pass
316.2	0.0	-0.6	0.6	0.00		-0.02	Pass
398.1	0.0	-0.6	0.6	0.00	0.40	-0.03	Pass
501.2	0.0	-0.6	0.6	0.01	0.40	-0.02	Pass
631.0	0.0	-0.6	0.6	0.01		-0.02	Pass
794.3	0.0	-0.6	0.6	0.01		-0.01	Pass
1,000.0	0.0			Refere	nce		
1,258.9	0.0	-0.6	0.6	-0.11	0.40	-0.08	Pass
1,584.9	-0.1	-0.5	0.3	-0.11		-0.02	Pass
1,995.3	-0.2	-0.6	0.2	-0.24		-0.07	Pass
2,511.9	-0.3	-0.7	0.1	-0.36		-0.07	Pass
3,162.3	-0.5	-0.9	-0.1	-0.56		-0.06	Pass
3,981.1	-0.8	-1.2	-0.4	-0.86	0.60	-0.04	Pass
5,011.9	-1.3	-2.2	-0.4	-1.36		-0.07	Pass
6,309.6	-2.0	-3.4	-1.1	-1.99		0.01	Pass
7,943.3	-3.0	-5.4	-2.1	-2.99		0.02	Pass
10,000.0	-4.4	-7.8	-3.0	-4.36		0.05	Pass
12,589.3	-6.2	-11.2	-4.2	-6.26		-0.02	Pass
15,848.9	-8.5	N/A	-6.5	-8.74	1.00	-0.21	Pass
19,952.6	-11.2	N/A	-9.2	-11.61		-0.36	Pass

<u>Toneburst Response (S1.4 § 6.2, 6.3, 651 § 7.2, 7.3)</u>
The sound level meter's A-weighted response to tonebursts at 2.0 kHz is measured.

Burst Dur.: the duration of the toneburst

Burst Rep.: repeat rate of the toneburst (continuous tests only)

Input Level: the level of the steady-state sinusoidal signal as indicated on the SLM display

Nominal Value: the value sound level meter should indicate according to ANSI S1.4 and IEC 651

Tolerance: the acceptable range, including the stated uncertainty, for what the sound level meter should indicate according to ANSI S1.4 and IEC 651

Data Found: the value the sound level meter actually indicates

96.0

86.0

56.0

93.3

83.3

53.3

92.5

82.5

52.5

94.1

84.1

54.1

93.26

83.25

53.25

0.0

0.0

0.0

Pass

Pass

Pass

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: the difference between the nominal value and the data found

Fast time weighting, single toneburst Deviation Dur. (ms) Level (dB) Value (dB) Minimum Maximum Found (dB) (dB) (dB)
Dur. (ms)
Dur. (ms) Level (db) Value (db) Minimum Maximum Found (db)
116.0
106.0
200
200
Burst Input Nominal Tolerace (dB) Data
Burst Input Nominal Tolerance (B) Data Uncertainty CBD Pass
Silow time weighting, single toneburst Dur. (ms) Level (dB) Value (dB) Minimum Maximum Found (dB) (dB) (dB) Pass/Fail (dB) 116.0 111.9 111.1 112.7 111.62 -0.3 Pass 116.0 111.9 111.1 112.7 111.62 -0.3 Pass
Burst Input Nominal Tolerance (dB) Data Uncertainty Deviation Qas) Pass/Fail
Dur. (ms) Level (dB) Value (dB) Minimum Maximum Found (dB) (dB) (dB) Faisy
126.0
116.0
106.0
96.0 91.9 91.1 92.7 91.62 0.2 -0.3 Pass Pass 56.0 81.9 81.1 82.7 81.74 -0.2 Pass Pass 56.0 51.9 51.1 52.7 51.87
96.0 91.9 91.1 92.7 81.74 -0.3 Pass 86.0 81.9 81.1 82.7 81.74 -0.2 Pass 56.0 51.9 51.1 52.7 51.87 -0.1 Pass Fass Fass
Burst Input Nominal Tolerance (dB) Data Uncertainty Deviation (dB) Pass/Fail
Burst Input Nominal Tolerance (dB) Value (dB)
Burst Input Nominal Tolerance (dB) Value (dB) Value (dB) Value (dB) Minimum Maximum Found (dB) (dB)
Burst Input Nominal Tolerance (dB) Mainimum Maximum Found (dB)
Dur. (ms) Level (dB) Value (dB) Minimum Maximum Found (dB) (dB) (dB) Pass/Fall
126.0
2
2
Page
96.0
126.0
126.0
5 116.0 107.2 105.4 109.0 106.01 0.2 1.12 Pass 106.0 97.2 95.4 99.0 96.07 0.2 -1.2 Pass -1.1 Pass 86.0 77.2 75.4 79.0 76.24 -1.0 Pass -1.1 Pass -1.0 Pass -1.0
5 106.0 97.2 95.4 99.0 96.07 0.2 -1.2 Pass -1.1
5 106.0 97.2 95.4 99.0 96.07 0.2 -1.2 Pass -1.1
96.0 87.2 85.4 89.0 86.18 0.2 -1.1 Pass 86.0 77.2 75.4 79.0 76.24 -1.0 Pass 56.0 47.2 45.4 49.0 46.74 -0.5 Pass 116.0 112.4 111.1 113.7 111.63 -0.8 Pass 106.0 92.4 91.1 93.7 91.64 -0.7 Pass 86.0 82.4 81.1 83.7 81.68 -0.7 Pass 86.0 52.4 51.1 53.7 52.00 -0.4 Pass 100.2 Pass 1
86.0
126.0
126.0
20
106.0 102.4 101.1 103.7 101.57 -0.8 Pass 96.0 92.4 91.1 93.7 91.64 -0.7 Pass 86.0 82.4 81.1 83.7 81.68 -0.7 Pass 56.0 52.4 51.1 53.7 52.00 -0.4 Pass
Pass
96.0 92.4 91.1 93.7 91.64 -0.7 Pass 86.0 82.4 81.1 83.7 52.00 -0.4 Pass 56.0 52.4 51.1 53.7 52.00 -0.4 Pass 56.0 68.0
Burst Dur. (ms) Burst Exercise Burst Dur. (ms) Dur. (ms)
Burst Burst Cour. (ms) Cour. (ms) Burst Cour. (ms) Burst Cour. (ms) Cour. (ms) Burst Cour. (ms) Cour. (ms) Cour. (ms) Burst Cour. (ms) Cour. (ms) Burst Cour. (ms) Burst Cour. (ms) Burst Cour. (ms) Burst Cour. (ms) Cour. (m
Burst Dur. (ms) Burst Rep. (Hz) Input Level (dB) Nominal Value (dB) Tolerance (dB) Data Maximum Found (dB) Uncertainty (dB) Deviation (dB) Pair (dB) Pair (dB) Pair (dB) Data (dB) Uncertainty (dB) Deviation (dB) Pair (dB
Dur. (ms) Rep. (Hz) Level (dB) Value (dB) Minimum Maximum Found (dB) (dB) (dB) Part (dB) 126.0 117.2 115.4 119.0 116.11 -1.1 F 116.0 107.2 105.4 109.0 106.25 -1.0 F 106.0 97.2 95.4 99.0 96.18 -1.1 F 96.0 87.2 85.4 89.0 86.25 -1.0 F 86.0 77.2 75.4 79.0 76.23 -1.0 F 56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F
Dur. (ms) Rep. (Hz) Level (dB) Value (dB) Minimum Maximum Found (dB) (dB) (dB)
126.0 117.2 115.4 119.0 116.11 -1.1 F 116.0 107.2 105.4 109.0 106.25 -1.0 F 106.0 97.2 95.4 99.0 96.18 -1.1 F 96.0 87.2 85.4 89.0 86.25 -1.0 F 86.0 77.2 75.4 79.0 76.23 -1.0 F 56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F
116.0 107.2 105.4 109.0 106.25 -1.0 F 106.0 97.2 95.4 99.0 96.18 -1.1 F 96.0 87.2 85.4 89.0 86.25 -1.0 F 86.0 77.2 75.4 79.0 76.23 -1.0 F 56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F
2 106.0 97.2 95.4 99.0 96.18 -1.1 F 96.0 87.2 85.4 89.0 86.25 -1.0 F 86.0 77.2 75.4 79.0 76.23 -1.0 F 56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F
96.0 87.2 85.4 89.0 86.25 -1.0 F 86.0 77.2 75.4 79.0 76.23 -1.0 F 56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F
86.0 77.2 75.4 79.0 76.23 -1.0 F 56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F 400.0 00.4 00.6 400.2 00.62 40.2 1.2 F
56.0 47.2 45.4 49.0 46.36 -0.9 F 126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F 400.0 20.4 20.6 400.0 20.6 40.0 20.6
126.0 118.4 116.6 120.2 119.75 1.3 F 116.0 108.4 106.6 110.2 109.62 1.2 F
116.0 108.4 106.6 110.2 109.62 1.2 F
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- I I 106.0 98.4 96.6 100.2 99.62 I I 1.2 F
96.0 88.4 86.6 90.2 89.69 0.2 1.3 F
86.0 78.4 76.6 80.2 79.76 1.3 F
56.0 48.4 46.6 50.2 49.75 1.3 F
126.0 123.3 122.5 124.1 123.31 0.0 F
116.0 113.3 112.5 114.1 113.24 0.0 F
110.0 110.0 112.0 117.1 110.27
100 106.0 103.3 102.5 104.1 103.25 0.0 F

Differential Level Linearity (S1.4 § 6.9, 6.10, 651 § 7.9, 7.10)

Level linearity is tested at 1.0 kHz. The input level is varied precisely and the indicated level on the display must correspond with the change of input level. Test is performed with 10 dB steps and 1 dB steps at A- and C-frequency weighting.

Input Level: the level (amplitude) of the signal to the sound level meter

Nominal Value: the value the sound level meter should indicate according to ANSI S1.4 and IEC 651

Tolerance: the acceptable difference from nominal, including the stated uncertainty, according to ANSI S1.4 and IEC 651

Data Found: the value the sound level meter actually indicates

Uncertainty: maximum expanded uncertainty of measurement with approximately 95% confidence level (coverage factor k=2)

Deviation: difference between the nominal value and the data found; differential: current and previous measurement is not allowed to

Input Nominal Tolerance Data Uncertainty Deviation (dB) Value (dB) Value (dB) Value (dB) Found (dB) Uncertainty Deviation (dB) Pass/Fail		ab according	10 ANSI 31.	4 and IEC 65				
Level (dB) Value (dB) (± dB) Found (dB) (dB) Measured Differential Pass/Fail				A-wei	ighted			
Level (dB) Value (dB) (± dB) Found (dB) (dB) Measured Differential	Input	Nominal	Tolerance	Data	Uncertainty	Deviati	on (dB)	Pacc/Fail
120.0 120.0 125.0 125.0 125.0 125.0 125.0 125.0 125.0 125.0 125.0 125.0 129.0 119.85 -0.2 -0.25 Pass 115.0 115.0 114.97 -0.0 -0.12 Pass 110.0 110.0 109.85 -0.2 -0.12 Pass 105.0 105.0 104.60 -0.4 -0.25 Pass 100.0 100.0 99.85 -0.2 -0.2 -0.25 Pass 100.0 100.0 99.85 -0.2 -0.2 -0.25 Pass 90.0 90.0 889.72 -0.3 -0.13 Pass 84.97 -0.3 -0.13 Pass 84.97 -0.3 -0.13 Pass 75.0 75.0 74.72 -0.3 -0.13 Pass 75.0 75.0 76.0 69.85 -0.2 -0.2 -0.12 Pass 75.0 65.0 664.72 -0.3 -0.13 Pass 65.0 65.0 664.72 -0.3 -0.13 Pass 66.0 66.0 59.72 -0.3 -0.13 Pass 66.0 66.0 59.72 -0.3 -0.13 Pass 70.0 70.0 64.72 -0.3 -0.13 Pass 70.0 70.0 70.0 70.0 64.72 -0.3 -0.13 Pass 70.0 70.0 70.0 70.0 70.0 69.85 -0.2 -0.1 0.13 Pass 70.0	Level (dB)	Value (dB)	(± dB)	Found (dB)	(dB)	Measured	Differential	1 ass/1 all
125.0 125.0 120.0 120.0 119.85 -0.2 -0.25 Pass 115.0 115.0 114.97 -0.0 0.12 Pass 115.0 110.0 110.0 110.0 100.0 99.85 -0.2 -0.25 Pass 100.0 100.0 99.85 -0.2 -0.25 Pass 100.0 100.0 99.85 -0.2 -0.2 -0.12 Pass 100.0 100.0 99.85 -0.2 -0.2 0.00 Pass 90.0 90.0 89.72 -0.3 -0.13 Pass 85.0 85.0 85.0 84.97 -0.0 0.25 Pass 90.0 90.0 79.85 -0.2 -0.2 0.00 Pass 90.0 79.85 -0.2 -0.13 Pass 75.0 75.0 74.72 -0.3 -0.13 Pass 70.0 70.0 69.85 -0.2 0.13 Pass 70.0 70.0 70.0 69.85 -0.2 0.13 Pass 70.0	114.0				-Reference-			
120.0 120.0 115.0 119.85 119.85 114.97 0.0 0.12 Pass 115.0 110.0 110.0 109.85 -0.2 -0.12 Pass 105.0 105.0 104.60 -0.4 -0.25 Pass 100.0 100.0 99.85 -0.2 0.25 Pass 95.0 95.0 94.85 -0.2 -0.2 0.00 Pass 90.0 89.0 84.97 0.0 0.25 Pass 85.0 85.0 84.97 0.0 0.25 Pass 86.0 86.0 79.85 -0.2 -0.3 -0.13 Pass 75.0 75.0 74.72 -0.3 -0.13 Pass 70.0 70.0 69.85 -0.2 0.13 Pass 70.0 70.0 69.85 -0.2 0.13 Pass 70.0 60.0 59.72 -0.3 -0.13 Pass 70.0 60.0 59.72 -0.3 -0.13 Pass 70.0 70.0 60.0 59.72 -0.3 -0.13 Pass 70.0 70.0 60.0 59.72 -0.3 0.00 Pass 70.0 70.0 70.0 60.0 59.72 -0.3 0.00 Pass 70.0				119.85				Pass
115.0	125.0	125.0		125.10			0.25	
110.0	120.0	120.0		119.85			-0.25	Pass
105.0				114.97			0.12	
100.0 100.0 95.0 95.0 94.85 -0.2 0.25 Pass 90.0 90.0 89.72 -0.2 0.00 Pass 85.0 85.0 84.97 0.0 0.25 Pass 80.0 80.0 79.85 -0.2 -0.12 Pass 75.0 75.0 74.72 -0.3 -0.13 Pass 70.0 70.0 69.85 -0.2 0.13 Pass 65.0 65.0 64.72 -0.3 -0.13 Pass 65.0 65.0 54.85 -0.1 0.13 Pass 55.0 55.0 54.85 -0.1 0.13 Pass 114.0 Value (dB)								
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Input Nominal Tolerance Data Uncertainty Deviation (dB) Measured Differential Pass/Fail	55.0	55.0				-0.1	0.13	Pass
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	80.0	80.0 75.0						
	80.0 75.0	75.0		74.89		-0.1	-0.25	Pass
	80.0 75.0 70.0	75.0 70.0		74.89 70.01		-0.1 0.0	-0.25 0.12	Pass Pass
55.0 55.0 55.01 0.0 0.12 Pass	80.0 75.0	75.0		74.89		-0.1	-0.25	Pass

