

Soft dB

Acoustical Equipment Manufacturer
1040 Belvédère Ave., Suite 215
Québec, Québec G1S 3G3
Canada

Calibration Certificate No. _____

<i>Instrument:</i>	Sound Level Meter
<i>Model:</i>	Piccolo
<i>Manufacturer:</i>	Soft dB inc.
<i>Serial Number:</i>	090915003
<i>Tested with:</i>	
<i>Type (class):</i>	2
<i>Customer:</i>	Soft dB inc.
<i>Tel/Fax:</i>	418-686-0993 / 418-686-2043

Tested in accordance with the following standard:

- **IEC 60651-** Specification for Sound Level Meters
- **ANSI S1.4-** Standard for Sound Level Meters

Instrument used for calibration

Instrument Manufacturer	Description
4226-Brüel & Kjaer	Acoustical MULTIFUNCTION GENERATOR
Standford System Generator Model DS360	Signal MULTIFUNCTION GENERATOR

Results summary:

Device complies with following clauses of mentioned specifications

CLAUSES ¹ FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	MET ²	NOT MET	MESUREMENT EXPANDED UNCERTAINTY (coverage factor 2) [dB]
IEC 60651/ANSI S1.4:			
Level Linearity Test (#7.9/ 6.9)	X		0.15
Differential Level Linearity (#7.10/6.10)	X		0.21
Weighting Network Tests: A, C, Lin network (#7.2.1/6.2.1-electrical test)	X		0.15
Overload Detector Test: A-Network (#9.3.1/8.3.1)	X		0.15
F/S/I/Peak Test: Steady State Response (#7.4/6.4)	X		0.15
Fast and Slow Overshoot Test (#8.4.1)	X		0.15
Fast-Slow Test: Single Sine Wave Burst (9.4.1&9.4.3/8.4.1 & 8.4.3)	X		0.15
RMS Detector Test: Continuous Sine Wave Burst (#9.4.2/8.4.2)	X		0.15
RMS Detector Test: Crest Factor Test (#9.4.2/8.4.2)	X		0.15
IEC60804/ANSI S1.43			
Level linearity Test (#9.3.3/8.3.3)	X		0.15
Time Averaging Test (#9.3.2/8.3.2) (Leq and LE)	X		0.15/0.17
Acoustical Test: Accuracy at selected frequencies	X		0.15
Acoustical tests: Weighting A Network Tests (#7.2.1/6.2.1)	X		0.2

¹ The results of this calibration apply only to the instrument type with serial number identified in this report.

² Parameters are certified at actual environmental conditions.

Detail results of the acoustic tests- ANSI S1.4 #5 using MF calibrator						
A-Weighted						
Frequency	Measure	Reference A	Tolerance	Results		
31	55,6	54,6	+/- 3	0,1	pass	
63	68,7	67,8	+/- 2	0,1	pass	
125	78,6	77,9	+/- 1,5	0,1	pass	
250	86	85,4	+/- 1,5	0,1	pass	
500	91,1	90,8	+/- 1,5	0,1	pass	
1000	94,1	94	+/- 1,5	0,1	pass	
2000	95,4	95,2	+/- 2	0,1	pass	
4000	96,8	95	+/- 3	0,1	pass	
8000	89,3	92,9	+/- 5	0,1	pass	
C-Weighted						
Frequency	Measure	Reference A	Tolerance	Results		
31	91,4	91	+/- 3	0,1	pass	
63	93,8	93,5	+/- 2	0,1	pass	
125	94,2	93,8	+/- 1,5	0,1	pass	
250	94,5	94	+/- 1,5	0,1	pass	
500	94,2	94	+/- 1,5	0,1	pass	
1000	93,9	94	+/- 1,5	0,1	pass	
2000	93,9	93,8	+/- 2	0,1	pass	
4000	94,9	93,2	+/- 3	0,1	pass	
8000	87,4	91	+/- 5	0,1	pass	

Environnemental test condition

Temperature	Barometric Pressure	Relative Humidity
	100,5 kPa	

Calibrated by	Elisabeth Laferrière
Signature	
Date	

The overall frequency response of the sound level meter and microphone has shown to conform to the requirements section 6 of the ANSI S1.4 for type 2 Sound Level Meter.

The results of this test apply only to the instrument type with the serial number identified.
Parameter are certified at actual environmental conditions

The instrument was tested for the parameters listed in the table above, using the methods described in the listed standards.
All tests were performed around the reference condition.