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# Calibration Certificate No. P02QC2017111301

## Instrument

Type:	Integrating Averaging Sound Level Meter
Model:	Piccolo-II
SN:	P0216123199
Class:	2
Mic Sensitivity:	17.81mV/Pa (0.0 dB from nominal)

#### Standards

Tested in accordance with procedures from ANSI/ASA S1.4-3 (2014) / IEC 61672-3 (2013) Electroacoustics - Sound Level Meters - Part 3: Periodic tests

### **Calibration Instruments**

Description	Manufacturer	Model	Serial Number
Function Generator	Stanford Research Systems	DS360	33623
Multi-function Calibrator	Brüel & Kjær	4226	1551588

#### **Environmental Conditions**

Temperature	Barometric Pressure	Humidity
23.0 C	101.3kPa	50%

### Personnel

Calibrated by:

Technician Name

## Summary

Summary	
Description	PASS / FAIL
Section 11.1 – Self-generated noise (Microphone)	Pass
Section 11.2 – Self-generated noise (Electrical input)	Pass
Section 12 - Acoustical signal tests of frequency weightings	Pass
Section 13 – Electrical signal tests of frequency weightings	Pass
Section 14 – Frequency and time weightings at 1 kHz	Pass
Section 15 – Long-term stability	Pass
Section 16 – Level linearity on the reference level range	Pass
Section 17 – Level linearity including range control	Pass
Section 18 – Toneburst response	Pass
Section 19 – C-weighted peak sound level	Pass
Section 20 – Overload indication	Pass
Section 21 – High-level stability	Pass

#### **Declaration of Conformity**

The sound level meter submitted for testing has successfully completed the Class 2 tests of ANSI/ASA S1.4-3 (2014) / IEC 61672-3 (2013) (limited to sections 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 and 21), for the environment conditions under which the tests were performed.

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Low         F           Low         UR           High         F           High         UR           High         UR           Tb(ms)         Data           200         LASmax           200         LASmax           200         LASmax           200         LAFmax           200         LAFmax           200         LAFmax           200         LAFmax           200         LAFmax           200         LAFmax           200         LAF           21         LAFmax           200         LAF           21         LAF           22         LAF           23         LAF           24         LAF           0.25         LAE           EC 61672-3 - Section 1           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           EC 61672-3 - Section 1           ow Range         Data           Data         Fr           LCE         41           LCE         41           LAE         41	Ref. Ref. Ref. Ref. Ref. Ref. Ref. Ref.	94.0           37.0           94.0           37.0           94.0           53.0           Burst Response           ad           Measure           9           97.5           977.9           103.9           98.0           978.0           98.0           98.0           98.0           9123.1           123.1           126.6           123.1           124.8	94.0 37.1 94.0 53.1 -7.4 -27.0 -1.0 -18.7 -27.2 -6.9 -26.9 -26.9 -36.0 -36.0 	0.1           0.0         0.1           Target Diff.         -7.4           -27.0         -1.0           -18.0         -27.0           -7.0         -27.0           -7.0         -27.0           -36.0         -27.0           -35.0         -25.5	Error 0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	Tolerance           ±1.0           1.0; -5.0           ±1.0           1.0; -2.5           1.5; -5.0           Tolerance	Pass Pass Pass Pass Pass Pass Pass Pass
Low         UR           High         IF           High         IF           UR         UR           Tb(ms)         Data           200         LASmax           2         LASmax           200         LAFmax           2         LAFmax           0.00         LAF           2         LAFmax           200         LAE           2         LAFmax           0.25         LAE           2         LAF           0.25         LAE           EC 61672-3 – Section         I           Freq.         Cycle           31.5Hz         1 (Full)           500Hz         1 (Full)           500Hz         ½ (Neg.)           EC 61672-3 – Section         I           60W Range         I           Data         Fi           LCE         41           LCE         41	k+5dB           Ref.           Ref.           Ref.           Applie           104.9           102.9           103.0           119.9           123.0           123.0	37.0         94.0         53.0         Burst Response         ad       Measure         9       97.5         9       103.9         9       86.2         9       77.7         9       98.0         9       78.0         9       68.9         cighted Peak So       68.9         cighted Peak So       123.1         1       126.6         9       123.1         1       124.8	37.1           94.0           53.1           -7.4           -27.0           -1.0           -18.7           -27.2           -6.9           -26.9           -36.0           wmd Level           Meas. Diff.           3.2           3.6           3.2	0.1 0.0 0.1 Target Diff. -7.4 -27.0 -1.0 -18.0 -27.0 -7.0 -27.0 -7.0 -27.0 -36.0 Target Diff. 2.5 3.5	Error 0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.0 1.0	Pass Pass Pass Pass Pass Pass Pass Pass
High High         F UR           200         LASmax           200         LASmax           200         LASmax           200         LASmax           200         LAFmax           2         LAFmax           200         LAFmax           2         LAFmax           200         LAFmax           200         LAFmax           200         LAE           2         LAFmax           200         LAE           2         LAE           0.25         LAE           EC 61672-3 – Section         F           500Hz         1 (Full)           500Hz         ½ (Neg.)           EC 61672-3 – Section         F           cow Range         Data           Data         F           LZE         44           LCE         44	Ref. Ref. R+5dB 18 - ToneB Applie 104.9 102.0 119.9 123.0 123.0 123.0	94.0           53.0           Burst Response           ad         Measure           9         97.5           9         77.9           9         103.9           9         86.2           9         77.7           9         88.0           9         78.0           9         68.9           sighted Peak So         123.1           1         126.6           9         123.1           1         124.8	94.0 53.1 	0.0 0.1 Target Diff. -7.4 -27.0 -1.0 -18.0 -27.0 -7.0 -27.0 -7.0 -27.0 -36.0 Target Diff. 2.5 3 5	Error 0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	1.1 1.1 1.1 Tolerance ±1.0 1.0; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 Tolerance	Pass Pass PASS / FA Pass Pass Pass Pass Pass Pass Pass Pas
High         UR           200         LASmax           200         LASmax           2         LASmax           200         LASmax           2         LASmax           200         LAFmax           2         LAFmax           2         LAFmax           200         LAFmax           2         LAFmax           200         LAE           2         LAFmax           200         LAE           2         LAF           0.25         LAE           CC 61672-3 – Section         SooHz           500Hz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 – Section         Sow           ange         Data           Data         Fill           LZE         41           LCE         41           LAE         41	R+5dB           18 - ToneB           Applie           104.9           102.9           103.0           119.9           123.0           123.0	53.0           Burst Response           ad         Measure           9         97.5           9         77.9           9         103.9           9         86.2           9         77.7           9         8.0           9         78.0           9         68.9           cighted Peak Soc         123.1           1         126.6           9         123.1           1         124.8	53.1 Meas. Diff. -7.4 -27.0 -1.0 -18.7 -27.2 -6.9 -26.9 -36.0 Meas. Diff. 3.2 3.6 3.2	0.1 Target Diff. -7.4 -27.0 -1.0 -18.0 -27.0 -7.0 -27.0 -36.0 Target Diff. 2.5 3.5	Error 0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	1.1 Tolerance ±1.0 1.0; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 Tolerance	Pass PASS / FA Pass Pass Pass Pass Pass Pass Pass Pas
EC 61672-3 - Section           Tb(ms)         Data           200         LASmax           2         LASmax           200         LASmax           2         LAFmax           2         LAFmax           200         LAFmax           2         LAFmax           200         LAFmax           200         LAFmax           200         LAE           2         LAF           0.25         LAE           0.25         LAE           0.25         LAE           0.25         LAE           0.25         LAE           2         LAE           0.25         LAE           CC 61672-3 - Section         So0Hz           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           EC 61672-3 - Section         Sow Range           Data         Fi           Data         Fi           LZE         41           LCE         41	18 - ToneB           Applie           104.9           119.9           123.0           123.0	Burst Response           ad         Measure           9         97.5           9         77.9           9         103.9           9         86.2           9         77.7           9         88.0           9         78.0           9         68.9           cighted Peak Soc         123.1           1         126.6           9         123.1           1         124.8	Meas. Diff.           -7.4           -27.0           -1.0           -18.7           -27.2           -6.9           -26.9           -36.0           Meas. Diff.           3.2           3.6           3.2	Target Diff.           -7.4           -27.0           -1.0           -18.0           -27.0           -7.0           -36.0           Target Diff.           2.5	Error 0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	PASS / FA Pass Pass Pass Pass Pass Pass Pass Pas
Data           Tb(ms)         Data           200         LASmax           2         LASmax           200         LASmax           2         LAFmax           200         LAE           2         LAF           0.25         LAF           2         LAE           0.25         LAE           CC 61672-3 – Section         SooHz           500Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Neg.)           500Hz         ½ (Neg.)           CC 61672-3 – Section 2           ow Range         Data           Data         Fi           LZE         41           LCE         41           LAE         41	Applie           Applie           104.9           102.0           119.9           123.0           123.0	Built (Cesponse           ed         Measure           9         97.5           9         103.9           9         86.2           9         77.9           9         86.2           9         78.0           9         68.9           cd         Meas.           9         123.1           1         126.6           9         123.1           1         124.8	Meas. Diff.           -7.4           -27.0           -1.0           -18.7           -27.2           -6.9           -26.9           -36.0           Meas. Diff.           3.2           3.6           3.2	Target Diff.           -7.4           -27.0           -1.0           -18.0           -27.0           -7.0           -27.0           -36.0           Target Diff.           2.5           3.5	Error 0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	PASS / FA Pass Pass Pass Pass Pass Pass Pass Pas
200         LASmax           200         LASmax           2         LASmax           200         LAFmax           200         LAFmax           2         LAFmax           0.25         LAFmax           200         LAF           2         LAFmax           0.25         LAFmax           200         LAE           2         LAF           0.25         LAF           0.25         LAE           0.00Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 – Section 2           ww Range         Data           Data         Fr           LZE         41           LCE         41	104.9 102.0 103.0 119.9 123.0 119.9 123.0 123.0 123.0 123.0	initial         97.5           97.5         77.9           103.9         86.2           97.7         98.0           97.5         77.7           98.0         78.0           97.5         78.0           97.5         103.9           97.5         123.1           124.8         124.8	-7.4 -7.4 -27.0 -1.0 -18.7 -27.2 -6.9 -26.9 -36.0 <b>Dund Level</b> Meas. Diff. 3.2 3.6 3.2	-7.4 -27.0 -1.0 -18.0 -27.0 -7.0 -27.0 -27.0 -36.0 Target Diff. 2.5 3.5	0.0 0.0 0.0 -0.7 -0.2 0.1 0.1 0.1 0.0 Error 0.7	$\begin{array}{c} \pm 1.0 \\ \pm 1.0 \\ 1.0; -5.0 \\ \pm 1.0 \\ 1.0; -2.5 \\ 1.5; -5.0 \\ \pm 1.0 \\ 1.0; -2.5 \\ 1.5; -5.0 \\ \hline \end{array}$	Pass Pass Pass Pass Pass Pass Pass Pass
200         LASmax           2         LASmax           200         LAFmax           2         LAFmax           0.25         LAFmax           200         LAF           2         LAFmax           0.25         LAFmax           200         LAE           2         LAFmax           200         LAE           2         LAF           0.25         LAE           OC 61672-3 - Section 7           Sthz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section 7           ow Range         Data           Data         Fr           LZE         41           LCE         41	104.9 102.0 100.0 100.00	77.9           103.9           86.2           77.7           98.0           78.0           96.2           77.7           98.0           78.0           91.03.9           103.9           103.9           103.9           103.9           103.9           103.9           103.9           123.1           124.8	-27.0 -1.0 -1.8.7 -27.2 -6.9 -26.9 -36.0 <b>bund Level</b> Meas. Diff. 3.2 3.6 3.2	-27.0 -1.0 -18.0 -27.0 -7.0 -27.0 -27.0 -36.0 Target Diff. 2.5 3 5	0.0 0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	1.0; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 Tolerance	Pass Pass Pass Pass Pass Pass Pass Pass
200         LAFmax           2         LAFmax           0.25         LAFmax           200         LAF           200         LAFmax           200         LAF           2         LAFmax           200         LAF           2         LAF           2         LAF           0.25         LAF           0.25         LAE           CC 61672-3 - Section 2           String         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section 2           ww Range         Data           Data         Fred           LZE         44           LCE         44	104.9 102.0 100.0 100.00	103.9           103.9           86.2           77.7           98.0           78.0           68.9           sighted Peak So           20           123.1           126.6           123.1           124.8	-1.0 -1.0 -18.7 -27.2 -6.9 -26.9 -36.0 <b>Dund Level</b> Meas. Diff. 3.2 3.6 3.2	-1.0 -18.0 -27.0 -7.0 -27.0 -36.0 Target Diff. 2.5 3.5	0.0 -0.7 -0.2 0.1 0.1 0.0 Error 0.7	1.0 ±1.0 1.0; -2.5 1.5; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 Tolerance	Pass Pass Pass Pass Pass Pass
2         LAFmax           0.25         LAFmax           200         LAE           2         LAFmax           200         LAE           2         LAE           0.25         LAE           CC 61672-3 - Section         Freq.           State         1 (Full)           500Hz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section         Section           Stopped         ½ (Neg.)           CC 61672-3 - Section         Section           Sw Range         Data         Fill           LZE         41           LCE         41	104.9 102.0 103.0 100.00	86.2           77.7         98.0           98.0         78.0           98.0         78.0           98.0         123.1           126.6         123.1           124.8         124.8	-18.7 -27.2 -6.9 -26.9 -36.0 <b>bund Level</b> Meas. Diff. 3.2 3.6 3.2	-18.0 -27.0 -7.0 -27.0 -36.0 Target Diff. 2.5 3 5	-0.7 -0.2 0.1 0.1 0.0 Error 0.7	1.0; -2.5 1.5; -5.0 ±1.0 1.0; -2.5 1.5; -5.0 Tolerance	Pass Pass Pass Pass Pass Pass
0.25         LAFmax           200         LAE           2         LAE           0.25         LAE           0.26 <b>61672-3</b> – <b>Section</b> 2           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           200Hz         ½           200Hz         ½     <	104.9 102.0 103.0 100.00	77.7           98.0           78.0           98.0           78.0           98.0           123.1           126.6           123.1           124.8	-27.2 -6.9 -26.9 -36.0 <b>bund Level</b> Meas. Diff. 3.2 3.6 3.2	-27.0 -7.0 -27.0 -36.0 Target Diff. 2.5 3 5	-0.2 0.1 0.1 0.0 Error	1.5; -5.0 ±1.0 1.0; -2.5 1.5; -5.0	Pass Pass Pass Pass Pass
OLD         Data HAE           200         LAE           2         LAE           0.25         LAE           31.5Hz         1 (Full)           500Hz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 – Section 2           w Range         Data           Data         Fill           LCE         41           LCE         41	104.9 104.9 104.9 104.9 104.9 104.9 119.9 123.0 119.9 123.0 123.0	98.0           98.0           78.0           68.9           eighted Peak So           ed           Meas.           123.1           126.6           123.1           124.8	-6.9 -26.9 -36.0 <b>bund Level</b> Meas. Diff. 3.2 3.6 3.2	-7.0 -27.0 -36.0 Target Diff. 2.5 3.5	0.1 0.1 0.0 Error 0.7	$\begin{array}{c} 1.0, \ 0\\ \pm 1.0\\ 1.0; \ -2.5\\ 1.5; \ -5.0\\ \hline \end{array}$	Pass Pass Pass Pass
2         LAE           0.25         LAE           0.25         LAE           C 61672-3 – Section         Freq.           Strain         1 (Full)           500Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           C 61672-3 – Section 2           w Range           Data         Fi           LZE         44           LAE         44	104.9 104.9 104.9 104.9 104.9 119.9 123.0 119.9 123.0 123.0	78.0           78.0           68.9           cd         Meas.           123.1           126.6           123.1           124.8	-26.9 -36.0 <b>Dund Level</b> Meas. Diff. 3.2 3.6 3.2	-27.0 -36.0 Target Diff.	0.1 0.0 Error	1.0; -2.5 1.5; -5.0	Pass Pass Pass
0.25         LAE           0.25         LAE           C 61672-3 - Section           Freq.         Cycle           31.5Hz         1 (Full)           500Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section 2           ww Range           Data         Fi           LZE         41           LCE         41           LAE         41	104.9 104.9 104.9 104.9 104.9 119.9 123.0 123.0 123.0	ighted Peak So           id         Meas.           123.1         126.6           123.1         124.8	-20.9 -36.0 <b>nund Level</b> Meas. Diff. 3.2 3.6 3.2	-36.0 Target Diff.	0.1 0.0 Error 0.7	1.5; -5.0	Pass / Fa
C.C. 61672-3 - Section           Freq.         Cycle           31.5Hz         1 (Full)           500Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section 2           w Range           Data         F           LZE         41           LCE         41           LAE         41	19 - C-Wei           Applie           119.9           123.0           123.0	sighted Peak So           ed         Meas.           )         123.1           )         126.6           )         123.1           )         124.8	Meas. Diff.           3.2           3.6           3.2	Target Diff.	Error 0.7	Tolerance	PASS / FA
C 61672-3 – Section           Freq.         Cycle           31.5Hz         1 (Full)           500Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           C6 61672-3 – Section 2           w Range           Data         Fill           LZE         44           LAE         41	Applie           119.9           123.0           119.9           123.0           123.0	eighted Peak So           ed         Meas.           0         123.1           1         126.6           0         123.1           1         124.8	Meas. Diff.           3.2           3.6           3.2	Target Diff.	Error 0.7	Tolerance	PASS / FA
rted.         Cycle           31.5Hz         1 (Full)           500Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           C 61672-3 - Section 2           w Range           Data         Fr           LZE         41           LCE         41           LAE         41	Applie           119.9           123.0           119.9           123.0           123.0           123.0	Meas.           9         123.1           126.6         123.1           1         124.8	3.2 3.6 3.2	2.5 3.5	0.7	Tolerance	
31.3HZ     1 (Full)       500Hz     1 (Full)       8kHz     1 (Full)       500Hz     ½ (Pos.)       500Hz     ½ (Neg.)       500Hz	119.9 123.0 119.9 123.0 123.0	123.1           126.6           123.1           124.8	3.2 3.6 3.2	2.5	0.7	1 1 2 0	INDD/IN
S00Hz         1 (Full)           8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)	123.0 119.9 123.0 123.0	$\begin{array}{c cccc} 126.6 \\ 123.1 \\ 124.8 \\ \end{array}$	3.6 3.2	4 5 1	0.1	±3.0	Pass
8kHz         1 (Full)           500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section 2           ow Range           Data         Fill           LZE         44           LCE         44	119.9 123.0 123.0	123.1 124.8	3.2	5.5	0.1	±2.0	Pass
500Hz         ½ (Pos.)           500Hz         ½ (Neg.)           CC 61672-3 - Section 2           ow Range           Data         Fi           LZE         41           LCE         41           LAE         41	123.0	)   124.8	1.0	3.4	-0.2	±3.0	Pass
S00Hz         ½ (Neg.)           CC 61672-3 - Section 2           ow Range           Data         Fi           LZE         41           LCE         41           LAE         41	123.0	1010	1.8	2.4	-0.6	±2.0	Pass
LCE 41 LAE 41	req.	Overload (+) 68.1	Overload (-) 68.3	Error 0.2	Tol	erance	PASS / FAIL Pass
LAE 41	kHz	67.5	67.7		-	-1.5	Pass
	kHz	68.4	68.5	01	-	-1.5	Pass
LZnk 41	kHz	110.0	110.0	0.0		-1.5	Pass
LCpk 41	kHz	109.1	109.1	0.0	5	±1.5	Pass
gh Range							
Data Fi	req.	Overload (+)	Overload (-)	Error	Tol	erance	PASS / FAIL
LZE 41	kHz	88.4	88.2	0 2	H	±1.5	Pass
LCE 41	kHz	87.8	87.6	0 2	=	⊧1.5	Pass
LAE 41	kHz	88.6	88.4	0 2	E I	1.5	Pass
LZpk 41	kHz	130.0	130.0	0.0	E E	±1.5	Pass
LCpk 41	kHz	129.2	129.2	0.0	E	±1.5	Pass
C 61672-3 – Section 2	21 – High-l	level Stability					
Initial	Fii	inal	Error	T	olerance	PAS	SS / FAIL
126.0		26.0	0.0		0.3		Pass
LZpk 41 LCpk 41	kHz kHz 21 – High-l	130.0 129.2	130.0 129.2	0.0 0.0	E E	±1.5 ±1.5	Pass Pass
Initial	Fi	nal	Error	Т	olerance	PAS	SS / FAIL
126.0		26.0	0.0		0.3		Pass
Data         Fi           LZE         41           LCE         41           LAE         41           LZpk         41           LCpk         41           LCpk         41           LCpk         41           LCpk         41           Initial         1	řreq. kHz kHz kHz kHz kHz 21 – High-I	Overload (+) 88.4 87.8 88.6 130.0 129.2 level Stability inal	Overload (-) 88.2 87.6 88.4 130.0 129.2 Error	Error 0 2 0 2 0 2 0 2 0.0 0.0 0.0	olerance	erance ±1.5 ±1.5 ±1.5 ±1.5 ±1.5 ±1.5 PAS	PASS / 1 Pass Pass Pass Pass Pass
126.0	FI	26.0	0.0		0.3	FAS	Pass