

# Sound Level Meter Calibration Report

Certificate No.:2487

Manufacturer: **Norsonic**  
Type: **1251**  
Serial no: **31006**

Customer: **Atkins Acoustics, Noise & Vibration**  
Department:  
Place: **260 Aztec West, Park Avenue, Almondsbury,**  
City: **Bristol BS32 4SY**  
Customer Order No: **12035604**  
Contact Person: **Lisa O'Driscoll**  
Phone/Mail:

## Measurement Results:

	Level :	P. Stab :	Frequency :	F. Stab :	Distortion:
	(dB)	(dB)	(Hz)	(%)	(% TD)
1:	114.01	0.06	1000.41	0.00	0.17
2:	114.04	0.06	1000.42	0.00	0.18
3:	114.01	0.06	1000.42	0.00	0.17

<b>Result (Average) :</b>	<b>114.02</b>	<b>0.06</b>	<b>1000.42</b>	<b>0.00</b>	<b>0.17</b>
Expanded Uncertainty:	0.10	0.02	1.00	0.01	0.01
Degree of Freedom:	>100	>100	>100	>100	21
Coverage Factor:	2.00	2.00	2.00	2.00	2.13

The stated level is relative to 20µPa.

The following correction factors have been applied during the measurement:

Pressure : None Temperature : None Relative humidity : None  
Reference microphone: WSM2\_1k - GRAS40AG-28653. Volume correction: 0.000 dB

Records :K:\C A\Calibration\Nor-1504\Nor-1018 CalCal\2006\NOR1251\_31006\_M1.nmf

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k = 2$ , which for a normal distribution corresponds to coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA publication EA-4/02.

## Environmental conditions:

Pressure :                      Temperature :      Relative humidity :  
98.996 ± 0.011 kPa      23.6 ± 1.1 °C      39.1 ± 2.1 %RH

Date of calibration:22/11/06

Date of issue:22/11/06

Supervisor : Ian Campbell MSc MIOA  
Engineer :



Darren Batten Tech IOA



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