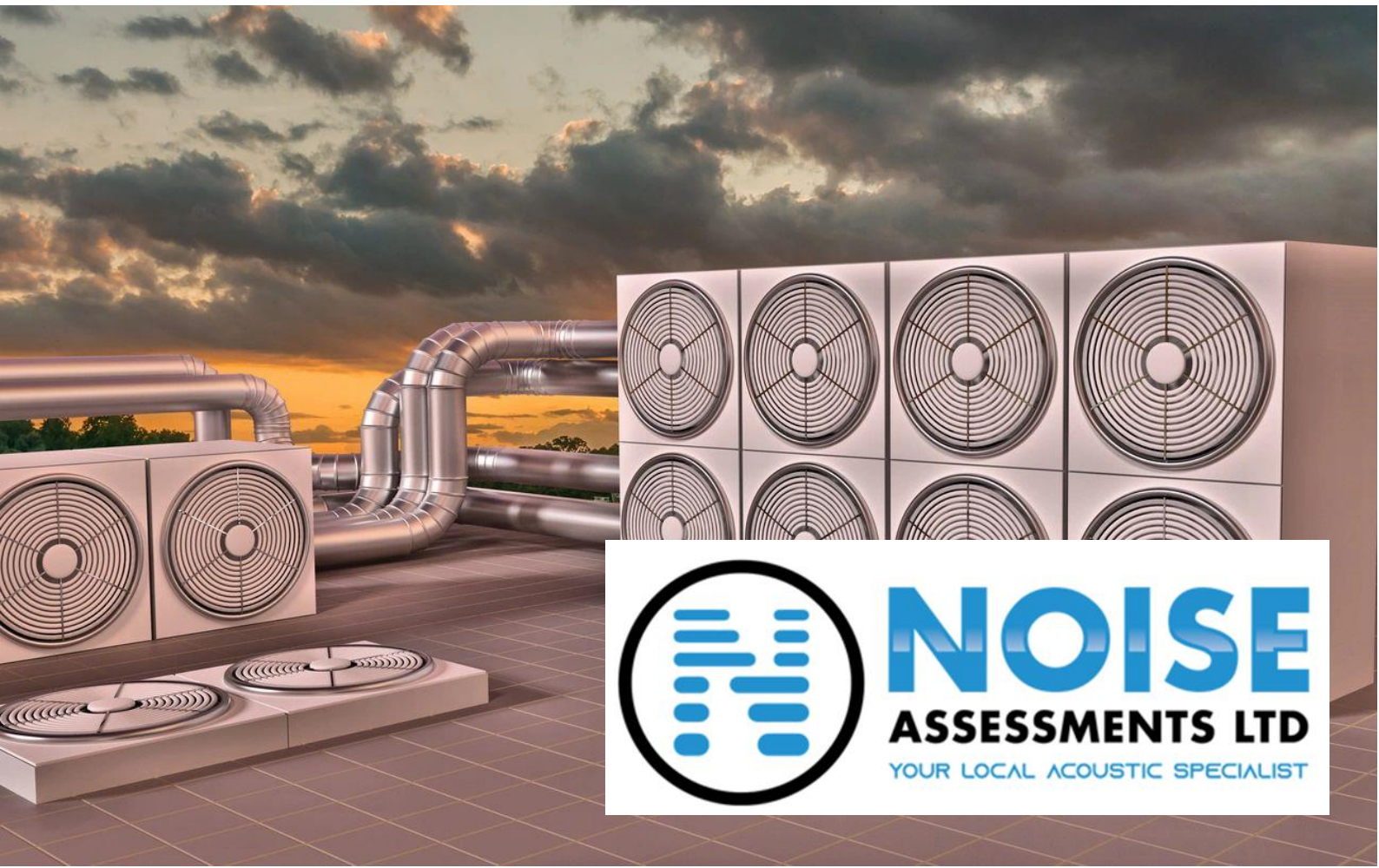


NOISE IMPACT ASSESSMENT

BS 4142:2014+A1:2019

Commercial Noise

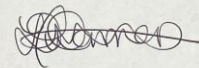


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REPORT DETAILS

Client	Melt Diner
Report Title	Noise Assessment: Commercial Noise
Site Address	704 Wilmslow Road, Manchester, M20 2DW
Project No.	NALPRO240122.01
Consultant Contact	jonathan@noiseassessment.org

QUALITY ASSURANCE

Issue No.	Status	Issue Date	Comments	Author	Approved
1	FINAL	23/02/22	-	 J Mape BSc (Hons) PgDip IOA Cert. Environ. Noise TechIOA Noise Consultant	 D Warren Director

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Assessment Summary

A two-storey commercial property, Melt Diner (herein referred to as the site) is applying for retrospective planning permission to operate their extraction system and is required to confirm their current external flue complies with external noise guidance. The client has completed a noise assessment at 704 Wilmslow Road, Manchester, M20 2DW.

The noise assessment is required to assess the likely impact from noise generated during the cooking process from the extraction system already installed. The ducting exits on the ground floor, terminating to the rear of the property at second floor level eaves.

The environmental health department of the local planning authority will raise concerns of the noise levels from the use of the extraction fan unit on neighbouring sensitive residential properties during the daytime.

The nearest noise sensitive receptors (NSRs) have been identified as a residential apartment directly adjacent and to the left of the site.

The lowest daytime background sound level was measured between 14:45-15:00 as 48 dB LA90,15min.

The rating level from the flue has been compared to the background sound level to determine the resultant noise impact in accordance with BS4142.

NSR	Rating Level, dB L _{Ar}	Difference, dBA	Impact
1	61	+13	Adverse
2	47	1	Low Impact

Adverse Impact from the external noise has been identified at the NSRs therefore a mitigation scheme is required.

To achieve a 18dB reduction from the flue noise, it is recommended that there is a scheme to install either combination of a single or double lined external ducked riser up to the roof eaves level, such installation should look to achieve an insertion loss of ≥ 10 dBA, and a silencer should also be installed with a reduction in noise level of ≥ 10 dBA, which would result in the cumulative reduction of 20dB and the sound rating level being approximately 5 dBA below the background noise level and indicative of a Low Impact at the NSR location.

1. Proposal

- 1.1 A two-storey commercial property, Melt Diner (herein referred to as the site) is applying for retrospective planning permission to operate their extraction system is required to confirm their current external flue complies with external noise guidance. The client has completed a noise assessment at 704 Wilmslow Road, Manchester, M20 2DW.
- 1.2 The noise assessment is required to assess the likely impact from noise generated during the cooking process from the extraction system already installed. The ducting exits on the ground floor, terminating to the rear of the property at second floor level eaves.
- 1.3 The environmental health department of the local planning authority will raise concerns of the noise levels from the use of the extraction fan unit flue on neighbouring sensitive residential properties during the daytime.
- 1.4 The hours of operation are:
 - Monday to Sunday, 12:00 – 22:00

Author

- 1.5 Jonathan has experience in environmental, noise and vibration monitoring, acoustic consultancy and impact assessment gained over a period of 16 years in the industry, across the UK, Australia, Brunei, Turkey and the Middle East. He has a Degree in Environmental Science, Postgraduate Diploma in Environmental Monitoring and is a member of the Institute of Acoustics (TechIOA). He has also completed the IOA Certificate in Environmental Noise, from the University of Liverpool.
- 1.6 Jonathan specialises in the measurement and assessment of noise and vibration for a wide range of planning applications, including those requiring EIA, across the industrial, commercial, residential, and mineral extraction sectors. Jonathan is also involved in undertaking various aspects of indoor occupational monitoring and reporting for projects relating to worker health.

2. Existing Context

- 2.1 The site (two floors) is set within a commercial row of 2-storey attached buildings located along a busy main street. The site is surrounded by a mixture of commercial shops/offices, restaurants, and residential apartments to the rear and left of the site.
- 2.2 The environmental health department of the local planning authority raised concerns of noise emissions from the use of the fan extraction unit venting on neighbouring noise sensitive residential properties at the rear of the site during the daytime.

3. Criteria

- 3.1 The following targets have been selected in accordance with 'BS 4142:2014+A1:2019 – Methods for rating and assessing industrial and commercial sound.' This will be achieved when the Rating Level is 5dB below the representative background sound level.

4. Noise Policy and Guidance

Noise Policy Statement for England (NPSE)

- 4.1 The NPSE sets out the Government's policy on noise and includes the long-term vision of promoting good health and a good quality of life through the effective management of noise within the context of Government policy on sustainable development.
- 4.2 This long-term vision is supported by the following aims:
- 4.3 Through the effective management and control of environmental, neighbour and neighbourhood noise within the context of Government policy on sustainable development:
- avoid significant adverse impacts on health and quality of life;
 - mitigate and minimise adverse impacts on health and quality of life; and
 - where possible, contribute to the improvement of health and quality of life.
- 4.4 There are two established concepts from toxicology that are currently being applied to noise impacts, for example, by the World Health Organisation. They are:
- NOEL (No Observed Effect Level) – this is the level below which no effect can be detected. In simple terms, below this level, there is no detectable effect on health and quality of life due to the noise;
 - LOAEL (Lowest Observed Adverse Effect Level) – this is the level above which adverse effects on health and quality of life can be detected.
- 4.5 Extending these concepts further, NPSE leads to the concept of a significant observed adverse effect level:
- SOAEL (Significant Observed Adverse Effect Level) – this is the level above which significant adverse effects on health and quality of life occur.
- 4.6 NPSE acknowledges that it is not possible to have a single objective noise-based measure that defines NOEL, LOAEL and SOAEL that is applicable to all sources of noise in all situations. It is therefore suggested that more specific advice from other applicable noise standards and guidance could be employed to determine suitable noise level criteria within the overall principles of the NPSE.

National Planning Policy Framework (NPPF)

- 4.7 The revised NPPF was updated on 19 February 2019 and sets out the government's planning policies for England and how these are expected to be applied. This document replaces the first NPPF published in March 2012 and includes minor clarifications to the revised version published in July 2018.
- 4.8 Where issues of noise impact are concerned the NPPF provides brief guidance in Chapter 15 '*Conserving and enhancing the natural environment*' as follows:

Paragraph 170:

Planning policies and decisions should contribute to and enhance the natural and local environment by preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability.

Paragraph 180:

Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development. In doing so they should:

- a) mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development – and avoid noise giving rise to significant adverse impacts on health and the quality of life;
- b) identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value for this reason; and
- c) limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.

Paragraph 182:

Planning policies and decisions should ensure that new development can be integrated effectively with existing businesses and community facilities (such as places of worship, pubs, music venues and sports clubs). Existing businesses and facilities should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or 'agent of change') should be required to provide suitable mitigation before the development has been completed.

Planning Practice Guidance (PPG)

- 4.9 PPG is written in support of the NPPF and provides an increased level of specific planning guidance.
- 4.10 It suggests that noise needs to be considered when new developments may create additional noise and when new developments would be sensitive to the prevailing acoustic environment. It is also suggested that noise should not be considered in isolation and separately from issues such as the economic, social and other environmental dimensions of proposed development.
- 4.11 Local planning authorities' plan-making and decision taking should take account of the acoustic environment and in doing so consider:
- whether or not a significant adverse effect is occurring or likely to occur;
 - whether or not an adverse effect is occurring or likely to occur; and
 - whether or not a good standard of amenity can be achieved.

Technical Guidance

BS 4142:2014+A1:2019 – Methods for rating and assessing industrial and commercial sound'

BS4142 Is a recognised standard for assessing the noise impact of fixed plant machinery via relation of noise emissions to current background noise levels.

5. Nearest Sensitive Receptor Locations

- 5.1 The nearest noise sensitive receptors (NSRs) have been identified as a residential apartment adjacent to the site.

6. Subjective Impressions

- 6.1 The noise climate at the rear of the site is dominated by bird song, noise from a nearby fast-food outlets and car park. Secondary noise sources have been identified as road traffic throughout the day and evening including cars and HGVs / LGVs where tyre / road interaction noise was most prominent from Wilmslow Road, Barlow Moor Road and Crossway.

7. Measurement Locations

- 7.1 Unattended background noise measurements were undertaken outside the rear of the nearest sensitive receptor. The data collected during this period has been used to characterise the existing acoustic environment around the site.
- 7.2 Measurement and NSR locations are shown in figure 1 below:

Figure 1: Site & Measurement Location



- Background measurement location M1
- ▬ Site location
- ★ NSR1 ★ NSR2

8. Measurement Procedure

- 8.1 Noise levels were measured on Sunday 6th February 2022. Full measurement times and durations can be found in **Appendix B**.

9. Measurement Equipment

- 9.1 Measurements were undertaken using a calibrated, Pulsar N45 class 1 sound level meter. Full equipment details can be found in **Appendix C**.
- 9.2 During all measurements the microphone was protected with an outdoor windshield.
- 9.3 The calibration level of the meter was checked before and after the survey with a Pulsar N45 sound calibrator with no variation in the levels observed.
- 9.4 The sound level meters were set to measure various noise parameters including LAeq and LAmx values using a 'fast' time weighting.
- 9.5 Full calibration details can be found in **Appendix D**.

10. Weather Conditions

10.1 Weather conditions were deemed acceptable for background noise measurement. Full meteorological conditions are detailed in **Appendix E**.

11. Noise Source Levels

11.1 The noise level of the extraction unit has been measured in-situ.

11.2 The outlet noise level is tabulated below:

Table 2: Measured Noise Level

Equipment	LAeq (dB)	r, m
Extractor fan outlet	72	2.0

BS4142:2014 Assessment

12. Specific Sound Levels

12.1 The specific sound level is denoted LAs and is the A-weighted, equivalent noise level at the NSR locations over the reference time period.

12.2 The NSRs are located adjacent to and directly above the site. See Figure 1 for the location of sensitive receptors. Full calculations are shown in **Appendix F**:

12.3 The Specific Sound Level of the air vented from the internal extractor fan unit at the nearest NSR locations at the rear of the site are summarised below:

Table 3: Specific Sound Levels

NSR	Specific Sound Level, dB L _{As}
1 (9m)	58
2 (16m)	44

13. Background Sound Level

13.1 Environmental noise levels were measured on site 6th February 2022.

13.2 The lowest daytime background sound level was measured between 14:45-15:00 as 48 dB LA90,15min.

14. Rating Level

14.1 The specific sound level may be corrected for certain characteristics that make a sound more noticeable at the NSR locations. Corrections for tonality, impulsivity and intermittency may be applied.

14.2 The associated rating penalties and resultant sound rating levels, dB L_{Ar}, are tabulated below:

Table 4: Rating Penalties, dB, and Sound Rating Levels

NSR	dB L _{As}	Tonality	Impulsivity	Intermittency	dB L _{Ar}
1	58	3	0	0	61
2	44	3	0	0	47

15. Rating Level Vs Background

15.1 The rating level is to be compared to the background sound level to determine the resultant noise impact in accordance with BS4142:

A Sound Rating Level at or below the background noise level is indicative of *Low Impact*;

A Sound Rating Level that exceeds the background noise level by around + 5dB is likely an indication of *Adverse Impact*, depending on the context;

A Sound Rating Level that exceeds the background noise level by around + 10dB is likely an indication of *Significant Adverse Impact*, depending on the context.

15.2 The noise impact during the daytime is tabulated below:

Table 5: Noise Impact

NSR	Rating Level, dB L _{Ar}	Difference, dBA	Impact
1	61	+13	Adverse
2	47	1	Low Impact

15.3 Adverse Impact from the external noise has been identified at the NSRs therefore mitigation is required.

15.4 To achieve a 18dB reduction from the flue noise, it is recommended to install a combination of a single or double lined external ducked riser up to the roof eaves level, such installation should look to achieve an insertion loss of ≥ 10 dBA, and a silencer should also be installed with a reduction in noise level of ≥ 10 dBA, which would result in the cumulative reduction of 20dB and the sound rating level being approximately 5 dBA below the background noise level and be indicative of a Low Impact at the NSR location.

16. Summary

- 16.1 A two-storey commercial property, Melt Diner (herein referred to as the site) is applying for retrospective planning permission to operate their extraction system and is required to confirm their current external flue complies with external noise guidance. The client has completed a noise assessment at 704 Wilmslow Road, Manchester, M20 2DW.
- 16.2 The noise assessment is required to assess the likely impact from noise generated during the cooking process from the extraction system already installed. The ducting exits on the ground floor, terminating to the rear of the property at second floor level eaves.
- 16.3 The environmental health department of the local planning authority will raise concerns of the noise levels from the use of the extraction fan unit on neighbouring sensitive residential properties during the daytime.
- 16.4 The nearest noise sensitive receptors (NSRs) have been identified as a residential apartment directly adjacent and to the left of the site.
- 16.5 The lowest daytime background sound level was measured between 14:45-15:00 as 48 dB LA90,15min.
- 16.6 The rating level from the flue has been compared to the background sound level to determine the resultant noise impact in accordance with BS4142.

NSR	Rating Level, dB L _{Ar}	Difference, dBA	Impact
1	61	+13	Adverse
2	47	1	Low Impact

- 16.7 Adverse Impact from the external noise has been identified at the NSRs therefore a mitigation scheme is required.
- 16.8 To achieve a 18dB reduction from the flue noise, it is recommended to install a scheme with either combination of a single or double lined external ducked riser up to the roof eaves level, such installation should look to achieve an insertion loss of ≥ 10 dBA, and a silencer should also be installed with a reduction in noise level of ≥ 10 dBA, which would result in the cumulative reduction of 20dB and the sound rating level being approximately 5 dBA below the background noise level and indicative of a Low Impact at the NSR location.

17. Uncertainties

- 17.1 Uncertainty can arise when a calculation method, such as distance correction, is used to determine an overall noise level at an NSR location.

17.2 The monitoring equipment is subject to a 1dB error margin, however calibration before and after measurements allows the drift within the margin to be monitored and thus demonstrates that minimal drift occurred throughout the measurements.

Appendices

APPENDIX A – Flue Location



APPENDIX B - Measurement Details				
Measurement	Start Date	Start Time	End Date	End Time
M1	05/02/22	16:00	07/02/22	18:30

APPENDIX C - Equipment Details				
Equipment	Make	Model	Class	Serial Number
Sound Meter	Pulsar	N45	1	1365
Calibrator	Pulsar	PM1	1	011121C

APPENDIX D - Calibration Details					
Measurement	Calibrator Ref Level (dB)	Level Before (dB)	Deviation Before (dB)	Level After (dB)	Deviation After (dB)
M1	94.0	94.0	0	94.0	0

APPENDIX E - Meteorology Details						
Date	Temp C	Wind Speed m/s*	Wind Direction	Humidity %	Precipitation mm	Cloud Cover (Oktas)
05-07/02/22	8	2.9	ssw	82	0.0	3/8

*Windspeeds measured on site using a Skywatch Xplorer 2 Anemo-Thermometer.

APPENDIX F - Noise Attenuation

Utilising Measured Levels

Equipment	Measured Data, dB L _{Aeq,T}	r ₁ , m	r ₂ , m	Barrier	Level at NSR ₂
Flue extractor	72	10.0	2.0	-	58 (NSR1)
		16.0	2.0	-	44 (NSR2)

Barrier attenuation assumed as 5 dB and 10 dB for the partial and complete blockage of the line of sight respectively between source and receiver as per 'BS5228-1:2009 – Noise and vibration control on construction and open sites' pg. 130.

Point source distance attenuation

$$L_y = 20 \times \log \frac{r_1}{r_2}$$

Where L_y is the distance attenuation factor and r_{1,2} are the source -> measurement distance and source -> NSR distance in metres respectively

APPENDIX G – Calibration Certificates

CERTIFICATE OF CALIBRATION		
ISSUED BY	Pulsar Instruments Plc	
DATE OF ISSUE	05 July 2021	CERTIFICATE NUMBER 159501
 Pulsar Instruments Plc Acoustic House Bridlington Road Hunmanby North Yorkshire YO14 0PH United Kingdom		Page 1 of 2 Approved signatory R.Thomas Electronically signed: 
Sound Level Meter : IEC 61672-3:2013		
Instrument information		
Manufacturer:	Pulsar Instruments Plc	Notes:
Model:	Model 45	
Serial number:	PN1432	
Class:	1	
Firmware version:	2.5.0.296	
Test summary		
Date of calibration: 05 July 2021		
The calibration was performed respecting the requirements of ISO/IEC 17025:2017. Periodic tests were performed in accordance with procedures from IEC 61672-3:2013.		
The sound level meter submitted for testing successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.		
As evidence was publicly available, from an independent testing organisation responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the specifications in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 specifications in IEC 61672-1:2013.		
Notes		
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.		

CERTIFICATE OF CALIBRATION

ISSUED BY **Pulsar Instruments Plc**
DATE OF ISSUE **05/07/21** CERTIFICATE NUMBER **159502**



Pulsar Instruments Plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Test engineer:
D.Swalwell
Electronically signed:

A handwritten signature in black ink, appearing to be 'D. Swalwell', written over a horizontal line.

Microphone

Microphone capsule

Manufacturer: Pulsar Instruments

Model: PM1

Serial Number: 011121C

Calibration procedure

Date of calibration: 28 June 2021

Open circuit: 50.4 mV/Pa

Sensitivity at 1 kHz: -25.9 dB rel 1 V/Pa

The microphone capsule detailed above has been calibrated to the published data as described in the operating manual of the associated sound level meter (where applicable).

The frequency response was measured using an electrostatic actuator in accordance with BS EN 61094-6:2005 with the free-field response derived via standard correction data traceable to a National Measurement Institute.

The absolute sensitivity at 1 kHz was measured using an acoustic calibrator conforming to IEC 60942:2003 Class 1.

Environmental conditions

Pressure: 101.00 kPa

Temperature: 21.0 °C

Humidity: 55.0 %

CERTIFICATE OF CALIBRATION

ISSUED BY **Pulsar Instruments Plc**

DATE OF ISSUE **05 July 2021**

CERTIFICATE NUMBER **159503**



Pulsar Instruments Plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory

R. Thomas

Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Pulsar Instruments

Notes:

Model: MODEL 105

Serial number: 77511

Class: 1

Test summary

Date of calibration: 05 July 2021

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK:224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed with the Physikalisch-Technische Bundesanstalt (PTB).

Notes:

This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX H – Terminology and Definitions

Noise

Sound only becomes noise (often defined as ‘unwanted sound’ or sound that is considered undesirable or disruptive) when it causes or contributes to some harmful or otherwise unwanted effect, like annoyance or sleep disturbance.

Acoustic Environment

Sound from all sound sources as modified by the environment.

Equivalent continuous A-weighted sound pressure level $L_{Aeq,T}$

Value of the A-weighted sound pressure level of a continuous, steady sound that, within a specified time interval T , has the same mean square sound pressure as a sound under consideration whose level varies with time.

A-weighting

The human ear is most sensitive to frequencies in the range 1 kHz to 5 kHz. On each side of this range the sensitivity falls off. A-weighting is used in sound level meters to replicate this sensitivity and respond in the same way as the human ear.

Octave Band

Band of frequencies in which the upper limit of the band is twice the frequency of the lower limit.

Maximum Sound Pressure Level $L_{Amax,T}$

Highest value of the A-weighted sound pressure level with a specified time weighting that occurs during a given event or measuring period.

The $L_{A10,T}$ Sound Level

The A-weighted sound pressure that is exceeded for 10% of a given time interval, T . It is often used to evaluate road traffic noise.

The $L_{A90,T}$ Sound Level

The A-weighted sound pressure that is exceeded for 90% of a given time interval, T , measured using time weighting F . It is often referred to as the background noise level and which might in part be an indication of relative quietness at a given location

Free-field Level

The sound pressure level away from reflecting surfaces.

NOTE Measurements made 1.2 m to 1.5 m above the ground and at least 3.5 m away from other reflecting surfaces are usually regarded as free-field. To minimize the effect of reflections the measuring position has to be at least 3.5 m to the side of the reflecting surface (i.e. not 3.5 m from the reflecting surface in the direction of the source).

Façade Level

The sound pressure level 1 m in front of the façade.

NOTE Facade level measurements of LpA are typically 1 dB to 2 dB higher than corresponding free-field measurements because of the reflection from the facade.

Indoor Ambient Noise

Noise in a given situation at a given time, usually composed of noise from many sources, inside and outside the building, but excluding noise from activities of the occupants.



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