

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



0653

Accredited to  
ISO/IEC 17025:2005

### Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Issue No: 020 Issue date: 09 July 2018

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Calibration performed at the above address only

#### DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ( $k = 2$ )	Remarks
<b>Acoustics</b>			
<b>Sound Calibrators</b>			
Sound pressure level	85 dB – 125 dB	0.10 dB	Verification of Sound Calibrators according to IEC 60942:2003 Annex B With Bruel & Kjaer microphone type 4134
Frequency	250 Hz 1000 Hz	0.26 % 0.13 Hz	
Distortion		5.3% of reading	
<b>Pistonphones</b>			
Sound pressure level	110 dB – 125 dB	0.10 dB	Verification of Pistonphones according to IEC 60942:2003 Annex B With Bruel & Kjaer microphone type 4134
Frequency	250 Hz	0.26 %	
Distortion		8 % of reading	
<b>Sound level meters</b>			
Verification of Sound Level Meters	BS 7580:Part 1:1997	See remarks	Verification of Type 0, 1 & 2 SLMs originally manufactured in accordance with BS EN 60651:1994 BS EN 60804:1994 and for which appropriate correction factors are known and agreed
Verification of Sound Level Meters	BS EN 61672-3: 2006 as modified by UKAS TPS 49 Edition 2: June 2009	See remarks	Verification of Class 1 & 2 Sound Level Meters originally manufactured in accordance with IEC 61672-1:2002 and for which required correction factors are known and agreed



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<p><b>Sound level meters cont'd</b></p> <p>Verification of Sound Level Meters</p> <p><b>Acoustics</b></p> <p>Filters - Octave and one-third octave band, sound level meter based: IEC 61260 and IEC 225, filter band shape: One-third octave at centre band frequencies</p> <p>Octave</p> <p>IEC 61260 / IEC 225 inter-band level</p> <p><b>Reverberation time</b></p> <p>50 Hz to 10 kHz in 1/3 octave steps Decay times 0.05 s to 25 s* *NB Exact Base 2 or Base 10 frequencies used; decay time increment 0.01 s</p> <p><b>Noise recording instrumentation:</b></p> <ul style="list-style-type: none"> <li>- Frequency response</li> <li>- Linearity response: external analysis</li> <li>internal analysis</li> </ul> <p><b>Tapping machines - verification</b></p>	<p>BS EN 61672-3:2013</p> <p>16 Hz to 20 kHz</p> <p>16 Hz to 16 kHz</p> <p>4 Hz to 32 kHz</p> <p>50 Hz to 10 kHz in 1/3 octave steps Decay times 0.05 s to 25 s* *NB Exact Base 2 or Base 10 frequencies used; decay time increment 0.01 s</p> <p>31.5 Hz to 12.5 kHz</p> <p>0 to 65 dB 0 to 65 dB</p> <p>In support of BS EN ISO 140-7:1998</p> <p>Velocity Mass Time Distance: diameter radius of curvature Angle of fall</p>	<p>See remarks</p> <p>0.16 dB within the filter pass-band 0.20 dB outside the filter pass-band</p> <p>0.16 dB at the centre frequency</p> <p>0.20% of decay time for <math>T_{20}</math> 0.13% of decay time for <math>T_{30}</math></p> <p>0.20 dB 0.27 dB 0.20 dB</p> <p>0.009 m/s 0.14 g 0.7 ms 0.04 mm 12 mm 0.18°</p>	<p>Verification of Class 1 &amp; 2 Sound Level Meters originally manufactured in accordance with IEC 61672-1:2013 and for which required correction factors are known and agreed.</p> <p>Filters originally manufactured in accordance with IEC 225:1966 or IEC 61260:1995 (BS EN 61260:1996) in combination with a sound level meter</p> <p>Verification of specific RT modules on sound level meters using multi-frequency sinusoidal signal with a continuous decay</p> <p>Range may be extended to limit of manufacturers' specification for instruments that analyse the recording internally</p>
END			