

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



0653

Accredited to
ISO/IEC 17025:2005

AV Calibration

Issue No: 013 Issue date: 02 June 2011

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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
Acoustics			
Sound pressure level of pistonphones	250 Hz	0.12 dB	With Bruel & Kjaer microphone type 4134
Sound pressure level of sound calibrators	250 Hz } 1000 Hz	0.12 dB	With Bruel & Kjaer microphone type 4134
Sound level meters 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
Periodic testing of Sound Level Meters	In accordance with Technical Guide NPL Acoustics 2004/1 Edition 2	See remarks	Periodic testing Class 1 & 2 SLMs originally manufactured in accordance with BS EN 61672-1:2003
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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A V Calibration
Issue No: 013 Issue date: 02 June 2011

Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks
<p>Acoustics</p> <p>Filters - Octave and one-third octave band, sound level meter based: IEC 61260, filter band shape: One-third octave at centre band frequencies Octave IEC 225, filter band shape: One-third octave at centre band frequencies Octave IEC 61260 / IEC 225 inter-band level</p>	<p>20 Hz to 5 kHz</p> <p>63 Hz to 2 kHz</p> <p>31.5 Hz to 4 kHz</p> <p>31.5 Hz to 4 kHz</p> <p>4 Hz to 32 kHz</p>	<p>0.16 dB at the centre frequency 0.17 dB at other frequencies within the pass-band of the filter 0.20 dB for measured frequencies outside the pass-band</p> <p>0.16 dB at the centre frequency</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>Reverberation time</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>0.20% of decay time for T_{20} 0.13% of decay time for T_{30}</p>	<p>Verification of specific RT modules on sound level meters using multi-frequency sinusoidal signal with a continuous decay</p>
<p>Noise recording instrumentation:</p> <ul style="list-style-type: none"> - Frequency response - Linearity response: external analysis internal analysis 	<p>31.5 Hz to 12.5 kHz</p> <p>0 to 65 dB0 to 65 dB</p>	<p>0.20 dB</p> <p>0.27 dB</p> <p>0.20 dB</p>	<p>Range may be extended to limit of manufacturers' specification for instruments that analyse the recording internally</p>
<p>Tapping machines - verification</p>	<p>In support of BS EN ISO 140-7:1998</p> <p>Velocity</p> <p>Mass</p> <p>Time</p> <p>Distance: diameter radius of curvature</p> <p>Angle of fall</p>	<p>0.010 m/s</p> <p>0.14 g</p> <p>0.7 ms</p> <p>0.04 mm</p> <p>12 mm</p> <p>0.18°</p>	

END