

ISO 6926:2016-01 (E)

Acoustics - Requirements for the performance and calibration of reference sound sources used for the determination of sound power level

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Reference meteorological conditions	4
5	Performance requirements	5
5.1	General	5
5.2	Temporal steadiness (stability) of sound power output	5
5.3	Total broadband sound power level	5
5.4	Spectral characteristics	5
5.5	Directivity	6
5.6	Recalibration	6
6	Instrumentation	7
6.1	General	7
6.2	Microphone in a hemi-anechoic room	7
6.3	Microphone in a reverberation test room	7
6.4	Microphone frequency response correction	7
6.5	Verification	8
6.6	Microphone calibration check	8
7	Installation and operation of the reference sound source during calibration	8
7.1	General	8
7.2	Requirements in hemi-anechoic rooms	9
7.3	Requirements in reverberation rooms	9
8	Calibration procedure in hemi-anechoic rooms	9
8.1	Test environment	9
8.2	Microphone positions	9
8.2.1	General	9
8.2.2	Meridional paths	9
8.2.3	Spiral path	9
8.2.4	Fixed point array	9
8.2.5	Coaxial circular paths	9
8.3	Measurements	10
8.3.1	General	10
8.3.2	Directivity index	10
8.3.3	Temporal steadiness	10
8.4	Calculations	11
9	Calibration procedure in reverberation test rooms	12
9.1	Test environment	12
9.2	Microphone positions	12
9.3	Measurements	12

9.3.1	General	12
9.3.2	Temporal steadiness	13
9.4	Calculations	13
10	Alternative calibration procedure at low frequencies	13
11	Measurement uncertainty	13
11.1	General	13
11.2	Typical values of the reproducibility standard deviation	14
12	Information to be recorded	15
13	Information to be reported	15
Annex A (informative) Guidance on the determination of C2		16
Annex B (normative) Alternative calibration procedure at low frequencies		18
Bibliography		19