SLOVENSKI STANDARD
oSIST prEN IEC 60942:2026

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Elektroakustika - Kalibratorji za zvokomere

Electroacoustics - Sound calibrators

Elektroakustik - Schallkalibratoren

Electroacoustique - Calibreurs acoustiques

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TITLE:

Electroacoustics - Sound calibrators

PROPOSED STABILITY DATE: 2029

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Electroacoustics - Sound calibrators

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IEC 60942 has been prepared by IEC technical committee 29: Electroacoustics. It is an International Standard.

This fifth edition cancels and replaces the fourth edition IEC 60942:2017 [1]. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) use of a working standard microphone, as defined in IEC 61094-4:1995 [2], in demonstrating conformance to this document is removed.
b) demonstration of conformance to this document is now via use of either a transfer standard microphone, as defined in IEC 61094-9 , for measurements at nominal sound calibrator frequencies from 31,5 Hz to 1 250 Hz, or use of a laboratory standard microphone, as defined in IEC 61094-1 for measurements at any frequency given in this document,
c) removal of the subclause on calibration of the sound calibrator with other models of microphone, such that this document deals entirely with specifications, pattern evaluation and periodic testing of a sound calibrator. This follows the structure of other standards within IEC/TC29.
d) updates on electromagnetic compatibility to use the current versions of the relevant generic standards, including increasing the upper frequency limit for radiated immunity testing.
e) to ensure greater consistency and thorough periodic testing of conformance Annex B has been changed so that all the prescribed tests are performed. For multi-level and multi-frequency sound calibrators a limited number of sound pressure level and frequency settings to be tested can no longer be specified by, or agreed with, the customer.

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The text of this International Standard is based on the following documents:

Draft	Report on voting
29/XX/FDIS	29/XX/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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Introduction

Sound calibrators are designed to produce one or more known sound pressure levels at one or more specified frequencies when coupled to microphones of specified models in specified configurations. The sound pressure level generated by some sound calibrators depends on the static pressure.

Sound calibrators have two principal applications:

a) the determination of the electroacoustical pressure sensitivity of specified models of microphone in specified configurations;

b) checking or adjusting the overall sensitivity of acoustical measuring devices or systems.

The acceptance limits for class LS sound calibrators are based on the use of a laboratory standard microphone, as specified in IEC 61094-1, for demonstrations of conformance to the requirements of this document. The acceptance limits for class 1 and class 2 sound calibrators are based on the use of either a transfer standard microphone, as specified in IEC 61094-9 or use of a laboratory standard microphone, as specified in IEC 61094-1, for demonstrations of conformance to the requirements of this document. Transfer standard microphones are used in this document for the frequency range from 31,5 Hz to 1 250 Hz only.

Where a correction is required to the sound pressure level measured by the transfer standard or laboratory standard microphone (as described in this document) the correction is provided by the manufacturer or supplier of the acoustical measuring devices or systems.

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1 Scope

The primary function of a sound calibrator is to generate a sinusoidal sound pressure of specified level and frequency when coupled to specified models of microphone in specified configurations.

This document specifies the performance requirements for three classes of sound calibrator: class LS (Laboratory Standard), class 1 and class 2. Acceptance limits are smallest for class LS and greatest for class 2 instruments. Class LS sound calibrators are normally used only in the laboratory; class 1 and class 2 sound calibrators are considered as sound calibrators for field use. A class 1 sound calibrator is primarily intended for use with a class 1 sound level meter and a class 2 sound calibrator primarily with a class 2 sound level meter, as specified in IEC 61672-1, and with a personal sound exposure meter, as specified in IEC 61252 [3].

To promote consistency of testing of sound calibrators and ease of use, this document contains normative information on pattern evaluation tests and periodic tests, and informative information on assessments of conformance to specifications of this document.

This document does not include requirements for equivalent free-field or random-incidence sound pressure levels, such as can be used in the overall sensitivity adjustment of a sound level meter.

A sound calibrator can provide other functions, for example, tonebursts. Requirements for these other functions are not included in this document.

2 Normative references

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The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-801:1994, *International Electrotechnical Vocabulary - Chapter 801: Acoustics and electroacoustics*

IEC 61000-4-2:2025, *Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test*

IEC 61000-4-3:2020, *Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test*

IEC 61000-4-20:2022, *Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides*

IEC 61000-6-1:2016, *Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments*

IEC 61000-6-2:2016, *Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments*

IEC 61000-6-3:2020, *Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environment*

IEC 61094-1, *Measurement microphones - Part 1: Specifications for laboratory standard microphones*

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IEC 61094-2:2009/AMD1:2022, *Electroacoustics - Measurement microphones - Part 2: Primary method for pressure calibration of laboratory standard microphones by the reciprocity technique*

IEC 61672-1, *Electroacoustics - Sound level meters - Part 1: Specifications*

ISO/IEC Guide 98-3:2008, *Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)*

ISO/IEC Guide 98-4:2012, *Uncertainty of measurement - Role of measurement uncertainty in conformity assessment*

ISO/IEC Guide 99, *International vocabulary of metrology - Basic and general concepts and associated terms (VIM)*

ISO 266:1997, *Acoustics - Preferred frequencies*

CISPR 16-1-1, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus*

CISPR 16-2-3:2016 + AMD1:2019 + AMD2:2023, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements*

IEC 61094-9, Measurement microphones - Part 9, Specifications for transfer standard microphones

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3 Terms and definitions

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For the purposes of this document, the terms and definitions given in IEC 60050-801:1994, ISO/IEC Guide 98-4:2012 and ISO/IEC Guide 99 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

– IEC Electropedia: available at https://www.electropedia.org/
– ISO Online browsing platform: available at https://www.iso.org/obp

NOTE Definitions for other relevant quantities are given in the documents referenced in Clause 2.

3.1
pistonphone
sound calibrator in which the sound pressure is generated in a fixed air volume by the motion of one or more pistons, creating a well-defined volume velocity

3.2
specified sound pressure level
sound pressure level generated under reference environmental conditions for use with a particular microphone type and configuration, valid for either an individual sound calibrator (in the case of a class LS calibrator) or all sound calibrators of the same model (in the case of a class 1 or class 2 calibrator)

Note 1 to entry: specified sound pressure level (3.2) is expressed in decibels (dB).

Note 2 to entry: The reference value is 20 µPa.

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3.3
nominal sound pressure level
close approximation to a specified sound pressure level (3.2) , valid for all sound calibrators of the same model, rounded to the nearest decibel (intended for marking)

Note 1 to entry: nominal sound pressure level (3.3) is expressed in decibels (dB).

Note 2 to entry: The reference value is 20 µPa.

3.4
specified frequency
frequency of the sound generated by the sound calibrator under reference environmental conditions, valid for either an individual sound calibrator (in the case of a class LS sound calibrator) or all sound calibrators of the same model (in the case of a class 1 or class 2 sound calibrator)

Note 1 to entry: specified frequency (3.4) is expressed in hertz (Hz).

3.5
nominal frequency
close approximation to a specified frequency (3.4) , often rounded according to ISO 266:1997 (intended for marking)

Note 1 to entry: nominal frequency (3.5) is expressed in hertz (Hz).

3.6
principal sound pressure level
nominal sound pressure level (3.3) specified in the instruction manual as principal

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Note 1 to entry: Where the sound calibrator produces more than one sound pressure level, the manufacturer identifies one nominal sound pressure level (3.3) as principal.

Note 2 to entry: principal sound pressure level (3.6) is used during demonstration of conformance of the sound calibrator to the requirements of this document.

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Note 3 to entry: principal sound pressure level (3.6) is expressed in decibels (dB).

Note 4 to entry: The reference value is 20 µPa.

3.7
principal frequency
nominal frequency (3.5) specified in the instruction manual as principal

Note 1 to entry: Where the sound calibrator produces more than one frequency, the manufacturer identifies one nominal frequency (3.5) as principal.

Note 2 to entry: principal frequency (3.7) is used during demonstration of conformance of the sound calibrator to the requirements of this document.

Note 3 to entry: principal frequency (3.7) is expressed in hertz (Hz).

3.8
replications
repeat of a measurement involving coupling the microphone to the sound calibrator and then completely removing the microphone from the sound calibrator

3.9
total distortion + noise
ratio of the root-mean-square of the total distortion and noise components, including any harmonics and sub-harmonics, to the root-mean-square of the entire signal

Note 1 to entry: Distortion is the correlated component of the signal due to non-linearity, and noise is the uncorrelated component.

Note 2 to entry: total distortion + noise (3.9) is expressed in per cent (%).

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3.10
reference orientation
orientation of a sound calibrator such that the principal axis of the opening of the cavity (the axis along which the microphone is inserted into the cavity) coincides with the principal direction of an emitter or receiver of radio-frequency fields, the opening of the cavity facing away from the emitter or receiver

4 Reference environmental conditions

Reference environmental conditions for specifying the performance of a sound calibrator are:

– air temperature: 23 °C;
– static pressure: 101,325 kPa;
– relative humidity: 50 %.

5 Requirements

5.1 General

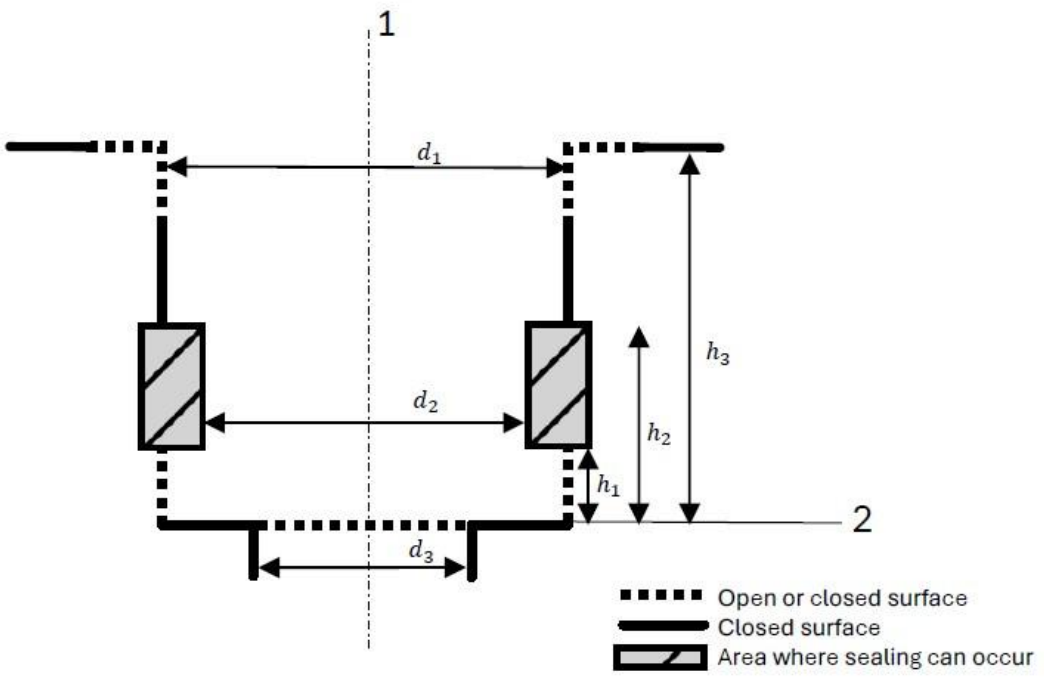
5.1.1 A sound calibrator conforming to the requirements of this document shall have the characteristics described in Clause 5.

5.1.2 A description of the aperture of the sound calibrator, the maximum and minimum diameter of the opening, position of sealing (if any) and maximum diameter of the opening to the cavity with the sound source (defining the support at the reference plane), as shown in Figure 1, shall be included in the instruction manual (see 6.3, list item b)). Dimensions shall be in mm and given to the nearest 0,1 mm.

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Key

1	principal axis
2	reference plane
d_1	diameter of opening
d_2	minimum diameter where sealing occurs
d_3	diameter of the opening of the cavity to the sound source
h_1	minimum possible distance from the reference plane to sealing
h_2	maximum possible distance from the reference plane to sealing
h_3	depth of the opening

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Figure 1 – Diagrammatic representation of sound calibrator aperture

5.1.3 The sound calibrator shall conform to the requirements of this document for one or more of the sound pressure level and frequency combinations available. A multi-level and multi-frequency sound calibrator shall conform to the requirements for the same class for all sound pressure level and frequency combinations for which the instruction manual states that the instrument conforms to the requirements of this document (see 6.3, list item k)). The principal sound pressure level shall be available at the principal frequency (see 6.3, list item h) and 6.3, list item i)). Conformance to the requirements of this document shall not be stated for sound pressure level and frequency settings for which this document provides no acceptance limits.

5.1.4 The permissible classes of sound calibrator are described in Table 1. Class LS sound calibrators shall be supplied with individual calibration data containing the information required by 6.2. For class 1 and class 2 sound calibrators, the specified sound pressure level (s) and specified frequency (ies) shall be given in the instruction manual. All specified sound pressure level (s) shall be stated in the instruction manual with a resolution better than, or equal to, 0,1 dB (see 6.3, list item c)). Each specified level shall be stated as an absolute sound pressure level.

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