

FINAL VERSION

VERSION FINALE



**Electroacoustics – Audio-frequency induction loop systems for assisted hearing –
Part 1: Methods of measuring and specifying the performance of system components**

**Électroacoustique – Systèmes de boucles d'induction audiofréquences pour améliorer l'audition –
Partie 1: Méthodes de mesure et de spécification des performances des composants de systèmes**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTROACOUSTICS –
AUDIO-FREQUENCY INDUCTION LOOP
SYSTEMS FOR ASSISTED HEARING –****Part 1: Methods of measuring and specifying
the performance of system components**

FOREWORD

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This Consolidated version is not an official IEC Standard and has been prepared for user convenience. Only the current versions of the standard and its amendment(s) are to be considered the official documents.

This Consolidated version of IEC 62489-1 bears the edition number 1.2. It consists of the first edition (2010-01) [documents 29/667/CDV and 29/668/RVC], its amendment 1 (2014-12) [documents 29/853/FDIS and 29/860/RVD] and its amendment 2 (2017-11) [documents 29/955/CDV and 29/963/RVC]. The technical content is identical to the base edition and its amendments.

This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 62489-1 has been prepared by IEC technical committee 29: Electroacoustics.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard is to be used in conjunction with IEC 60118-4:2006, *Electroacoustics – Hearing aids – Part 4: Induction loop systems for hearing aid purposes – Magnetic field strength*.

A list of all the parts in the IEC 62489 series, under the general title *Electroacoustics – Audio-frequency induction loop systems for assisted hearing*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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ELECTROACOUSTICS – AUDIO-FREQUENCY INDUCTION LOOP SYSTEMS FOR ASSISTED HEARING –

Part 1: Methods of measuring and specifying the performance of system components

1 Scope

This part of the IEC 62489 series applies to the components of audio-frequency induction-loop systems for assisted hearing. It may also be applied to such systems used for other purposes, as far as it is applicable. This standard is intended to encourage accurate and uniform presentation of manufacturers' specifications, which can be verified by standardized methods of measurement. It is intended for type testing.

The components considered are the following:

- amplifiers;
- microphones;
- other components, such as playback equipment.

This standard does not deal with safety, for which IEC 60065 applies. It also does not deal with EMC (Electromagnetic compatibility) and EMF (Electromagnetic fields, in the context of human exposure).

2 Normative references

The following referenced documents are indispensable for the application 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 60118-4:2014, *Electroacoustics – Hearing aids – Part 4: Induction loop systems for hearing aid purposes – System performance requirements*

IEC 60268-1:1985, *Sound system equipment – Part 1: General*

IEC 60268-2:1987, *Sound system equipment – Part 2: Explanation of general terms and calculation methods*

IEC 60268-3:2013, *Sound system equipment – Part 3: Amplifiers*

IEC 60268-4:2014, *Sound system equipment – Part 4: Microphones*

IEC 60417, *Graphical symbols for use on equipment* (available at <http://www.graphical-symbols.info/equipment>)

IEC 60603-11:1992, *Connectors for frequencies below 3 MHz for use with printed boards – Part 11: Detail specification for concentric connectors (dimensions for free connectors and fixed connectors)*

IEC 61938:2013, *Multimedia systems – Guide to the recommended characteristics of analogue interfaces to achieve interoperability*