

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

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 62489-1:2010 sisaldab Euroopa standardi EN 62489-1:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.05.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 23.04.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 62489-1:2010 consists of the English text of the European standard EN 62489-1:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 23.04.2010.

The standard is available from Estonian standardisation organisation.

ICS 17.140.50

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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  
(IEC 62489-1:2010)**

Electroacoustique -  
Systèmes de boucles d'induction  
audiofréquences pour améliorer l'audition -  
Partie 1: Méthodes de mesure  
et de spécification des performances  
des composants de systèmes  
(CEI 62489-1:2010)

Akustik – Audiofrequenz-  
Induktionsschleifenanlagen  
zur Unterstützung von Hörsystemen –  
Teil 1: Verfahren zur Messung  
und Angabe des Betriebsverhaltens  
der Systemkomponenten  
(IEC 62489-1:2010)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 29/667/CDV, future edition 1 of IEC 62489-1, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62489-1 on 2010-04-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2011-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-04-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62489-1:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standards indicated:

- [1] IEC 60065      NOTE Harmonized as EN 60065.
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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60118-4	2006	Electroacoustics - Hearing aids - Part 4: Induction loop systems for hearing aid purposes - Magnetic field strength	EN 60118-4	2006
IEC 60268-1	1985	Sound system equipment - Part 1: General	HD 483.1 S2 <sup>1)</sup>	1989
IEC 60268-2	-	Sound system equipment - Part 2: Explanation of general terms and calculation methods	HD 483.2 S2 <sup>2)</sup>	-
IEC 60268-3	2000	Sound system equipment - Part 3: Amplifiers	EN 60268-3 + corr. January	2000 2002
IEC 60268-4	2004	Sound system equipment - Part 4: Microphones	EN 60268-4	2004
IEC 61938	-	Audio, video and audiovisual systems - Interconnections and matching values - Preferred matching values of analogue signals	EN 61938	-
ISO/IEC Guide 98-3	-	Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	-	-

<sup>1)</sup> HD 483.1 S2 includes A1 to IEC 60268-1.

<sup>2)</sup> HD 483.2 S2 includes A1 to IEC 60268-2.

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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 60118-4:2006, *Electroacoustics – Hearing aids – Part 4: Induction loop systems for hearing aid purposes – Magnetic field strength*

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

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

IEC 60268-3:2000, *Sound system equipment – Part 3: Amplifiers*

IEC 60268-4:2004, *Sound system equipment – Part 4: Microphones*

IEC 61938, *Audio, video and audiovisual systems – Interconnections and matching values – Preferred matching values of analogue signals*

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