ICS 17.140.50 SLOVENSKÁ TECHNICKÁ NORMA August 2022

STN	Elektroakustika Sluchové protézy Časť 16: Definícia a overovanie vlastností sluchových protéz	STN EN IEC 60118-16 36 8860

Electroacoustics - Hearing aids - Part 16: Definition and verification of hearing aid features

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/22

Obsahuje: EN IEC 60118-16:2022, IEC 60118-16:2022

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60118-16

April 2022

ICS 17.140.50

English Version

Electroacoustics - Hearing aids - Part 16: Definition and verification of hearing aid features (IEC 60118-16:2022)

Électroacoustique - Appareils de correction auditive - Partie 16: Définition et vérification des caractéristiques des appareils de correction auditive (IEC 60118-16:2022)

Elektroakustik - Hörgeräte - Teil16: Begriffe und Verifikation von Hörgeräteeigenschaften (IEC 60118-16:2022)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN IEC 60118-16:2022 E

EN IEC 60118-16:2022 (E)

European foreword

The text of document 29/1110/FDIS, future edition 1 of IEC 60118-16, prepared by IEC/TC 29 "Electroacoustics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60118-16:2022.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2023-01-20
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2025-04-20

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Endorsement notice

The text of the International Standard IEC 60118-16:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60318-5	NOTE Harmonized as EN 60318-5
IEC 60318-4	NOTE Harmonized as EN 60318-4
IEC 60318-6	NOTE Harmonized as EN 60318-6
IEC 60601-2-66:2019	NOTE Harmonized as EN IEC 60601-2-66:2020 (not modified)
IEC 60118-9	NOTE Harmonized as EN IEC 60118-9

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60118-0	— [1]	Electroacoustics - Hearing aids - Part 0: Measurement of the performance characteristics of hearing aids	EN IEC 60118-0	— [2]
IEC 60118-15	-	Electroacoustics - Hearing aids - Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal	EN 60118-15	-
IEC 61260-1	-	Electroacoustics - Octave-band and fractional-octave-band filters - Part 1: Specifications	EN 61260-1	-
ISO 21748	-	Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty estimation	-	-

[1] In preparation. Stage at time of publication: IEC FDIS 60118-0:2022.

[2] In preparation. Stage at time of publication: prEN IEC 60118-0:2021.

IEC 60118-16

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Electroacoustics – Hearing aids – Part 16: Definition and verification of hearing aid features

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IEC 60118-16:2022-03(en-fr)

IEC 60118-16

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FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60118-16 has been prepared by technical committee 29: Electroacoustics. It is an International Standard.

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

Draft	Report on voting
29/1110/FDIS	29/1116/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 http://www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60118 series, published under the general title *Electroacoustics – Hearing aids*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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

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ELECTROACOUSTICS – HEARING AIDS –

Part 16: Definition and verification of hearing aid features

1 Scope

This part of IEC 60118 gives definitions for common hearing aid features such as noise reduction or feedback reduction, etc. Only acoustical inputs are considered. Binaural features are currently not covered in this document. In addition, measurement procedures are described to verify hearing aid features. The objective is not to evaluate the performance of features but to verify their existence and functionality.

Furthermore, definitions and procedures are kept as general as possible so that this document can be applied to various types of hearing aids, for example, air-conduction hearing aids or bone conduction hearing aids. To this end, the general definition for the term "hearing aid" given in IEC 60118-0 is adopted, and this document does not refer to any specific ear simulator or acoustic coupler but uses a general definition of a coupler. However, if a general view is not applicable or leads to unclear or complex wording, the situation for an air-conduction hearing aid only is considered. Nevertheless, an explanation is given on how this document can be applied to hearing aids which do not use air conduction.

2 Normative references

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 60118-0:—[1], *Electroacoustics – Hearing aids – Part 0: Measurement of the performance characteristics of hearing aids*

IEC 60118-15, *Electroacoustics – Hearing aids – Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal*

IEC 61260-1, *Electroacoustics – Octave-band and fractional-octave-band filters – Part 1: Specifications*

ISO 21748, *Guidance for the use of repeatability, reproducibility and trueness estimates in measurement uncertainty evaluation*

[1] Fourth edition under preparation. Stage at the time of publication: IEC FDIS 60118-0:2022