

Hearing aids —

Part 0: Methods for measurement of electroacoustical characteristics

The European Standard EN 60118-0:1993 (including EN 60118-0/A1:1994) has the status of a British Standard

UDC 534.773.2:621.395.92:001.4:620.1:621.317.6:534.86

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Electronic Equipment Standards Committee (EEL/-) to Technical Committee EEL/24 upon which the following bodies were represented:

- British Radio and Electronic Equipment Manufacturers' Association
- British Telecommunications
- Department of Health and Social Security
- Department of Trade and Industry (National Physical Laboratory)
- Institution of Electronic and Radio Engineers
- Royal National Institute for the Deaf
- Society of Hearing Aid Audiologists Limited

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Medical Association
- British Society of Audiology
- Health and Safety Executive
- Hearing Aid Industry Association
- Institute of Actuaries
- Institute of Sound and Vibration Research
- Manchester Area Health Authority
- Medical Research Council
- Ministry of Defence
- National Coal Board
- Royal Aeronautical Society

This British Standard, having been prepared under the direction of the Electronic Equipment Standards Committee, was published under the authority of the Board of BSI and comes into effect on 3 March 1984

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The following BSI references relate to the work on this standard:
Committee reference EEL/24
Draft for comment 81/24282 DC

ISBN 0 580 13793 7

Amendments issued since publication

Amd. No.	Date of issue	Comments
6179	October 1990	
7836	August 1993	
8252	July 1994	Indicated by a sideline in the margin

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National foreword

This Part of this British Standard has been prepared under the direction of the Electronic Equipment Standards Committee and is identical with IEC Publication 118-0:1983 “Measurement of electroacoustical characteristics”, and amendment 1:1994, published by the International Electrotechnical Commission (IEC). This standard is also in agreement with Harmonization Document HD 450.0 S1 and EN 60118-0/A1:1994, published by the European Committee for Electrotechnical Standardization (CENELEC).

In 1993 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 118-0:1983 as European Standard EN 60118-0:1993. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 60118-0 and any reference to BS 6083-0 should be read as a reference to BS EN 60118-0.

This Part of this standard, together with Parts 1 to 4, supersedes BS 3171:1968, which is withdrawn.

BS 6083 consists of the following Parts:

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| Part 0:1984 | <i>Methods for measurement of electroacoustical characteristics.</i> |
| Part 1:1984 | <i>Method of measurement of characteristics of hearing aids with induction pick-up coil input.</i> |
| Part 2:1984 | <i>Methods of measurement of electroacoustical characteristics of hearing aids with automatic gain control circuits.</i> |
| Part 3:1991 | <i>Methods of measurement of electroacoustical characteristics of hearing aid equipment not entirely worn on the listener.</i> |
| Part 4:1981 | <i>Specification for magnetic field strength in audio-frequency induction loops for hearing aid purposes.</i> |
| Part 5:1984 | <i>Specification for dimensions of the nipple and sealing device for insert earphones.</i> |
| Part 6:1985 | <i>Specification for characteristics of electrical input circuits for hearing aids.</i> |
| Part 7:1985 | <i>Methods for measurement of performance characteristics of hearing aids for quality inspection on delivery.</i> |
| Part 8:1985 | <i>Methods for measurement of performance characteristics of hearing aids under simulated in situ working conditions.</i> |
| Part 9:1986 | <i>Method for measurement of characteristics of hearing aids with bone vibrator outputs.</i> |
| Part 10:1988 | <i>Guide to hearing aid standards.</i> |
| Part 11:1984 | <i>Specification for symbols and other markings on hearing aids and related equipment.</i> |

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards.

Cross-references

International Standards	Corresponding British Standards
IEC 68	BS 2011 <i>Basic environmental testing procedures</i>
IEC 118-1:1975	BS 6083 <i>Hearing aids</i> Part 1:1981 <i>Method of measurement of characteristics of hearing aids with induction pick-up coil input</i> (Identical)
IEC 118-2:1983	BS 6083 <i>Hearing aids</i> Part 2:1981 <i>Methods of measurement of electro-acoustical characteristics of hearing aids with automatic gain control circuits</i> (Identical)
IEC 118-7:1983	Part 7:1985 <i>Methods for measurement of the performance characteristics of hearing aids for quality inspection on delivery</i> (Identical)
IEC 118-8:1983	Part 8:1985 <i>Methods for measurement of the performance characteristics of hearing aids under simulated in situ working conditions</i> (Identical)
IEC 126:1973	BS 6111:1981 <i>Specification for reference coupler for the measurement of hearing aids using earphones coupled to the ear by means of ear inserts</i> (Identical)
IEC 225:1966	BS 2475:1964 <i>Octave and one-third octave band-pass filters</i> (Technically equivalent)
IEC 263:1982	BS 6397:1983 <i>Specification for scales and sizes for plotting frequency characteristics and polar diagrams</i> (Identical)
IEC 711:1981	BS 6310:1982 <i>Specification for occluded-ear simulator for the measurement of earphones coupled to the ear by ear inserts</i> (Identical)

Additional information. The note to 6.4.4 contains a requirement and for the purposes of this Part of this British Standard it should therefore be regarded as part of the main text.

NOTE Typographical error. In 7.14, for “decribed” read “described”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Descriptors: Hearing aids, measurement, electroacoustic, audiofrequency

English version

Hearing aids Part 0: Measurement of electroacoustical characteristics

(Includes amendment A1:1994)

(IEC 118-0:1983)

Appareils de correction auditive
Partie zéro. Méthodes de mesure des
caractéristiques électroacoustiques
(CEI 118-0:1983)
(inclut amendement A1:1994)

Hörgeräte
Teil 0: Messung der elektroakustischen
Eigenschaften
(IEC 118-0:1983)
(enthält Änderungen A1:1994)

This European Standard was approved by CENELEC on 1992-12-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

At the request of the Technical Board, HD 450.0 S1:1984 (IEC 118-0:1983) was submitted to the CENELEC voting procedure for conversion into a European Standard.

The text of the International Standard was approved by CENELEC as EN 60118-0 on 9 December 1992. The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1993-12-01
- latest date of withdrawal of conflicting national standards (dow) —

Annexes designated “normative” are part of the part of the standard.

In this standard, Annex ZA is normative.

Foreword to Amendment A1

The text of document 29(C))169, as prepared by IEC Technical Committee No. 29: Electroacoustics, was submitted to the IEC-CENELEC parallel vote in April 1992.

The reference document was approved by CENELEC as amendment A1 to EN 60118-0 on 9 March 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-01-01
- latest date of withdrawal of conflicting national standards (dow) 1995-01-01