

Specification for

Integrating-averaging sound level meters

The European Standard EN 60804:1994 has the status of a
British Standard

UDC 621.317.799:534.6

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 plc
- 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 Acoustics
- 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 30 April 1986

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared under the direction of the Electronic Equipment Standards Committee. It is identical with IEC 804:1985 “*Integrating-averaging sound level meters*”, as amended by Amendment No. 1 and Amendment No. 2, published by the International Electrotechnical Commission (IEC).

In 1994 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 804:1985 and amendment 1:1989 as European Standard EN 60804:1994. As a consequence of implementing the European Standard this British Standard has been renumbered as BS EN 60804 and any reference to BS 6698 should be read as a reference to BS EN 60804.

Also in 1994 CENELEC accepted amendment 2 to IEC 804:1985 as amendment A2 to EN 60804:1994.

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.

Note 1 to 3.3 and the note to 7.3 contain mandatory requirements and for the purposes of this British Standard should, therefore, be regarded as being part of the main text.

With regard to the use of the A1 characteristic, referred to in 4.1, 6.1 and Appendix B, attention is drawn to the national foreword of BS 5969 which gives a warning that “reliance cannot be placed on the I time weighting characteristic for use in connection with noise measurement to determine loudness of the sounds and for assessing the risk of hearing impairment”.

For information on the sound level meter characteristics to be used in any given noise measurement situation, reference should be made to the relevant standards, e.g. BS 5330:1976 “*Method of test for estimating the risk of hearing handicap due to noise exposure*”.

Cross-references

International Standard	Corresponding British Standard
IEC 50(801):1984	BS 4727 <i>Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms</i> Part 3: <i>Terms particular to telecommunications and electronics</i> Group 08:1985 <i>Acoustics and electroacoustic terminology</i> (Technically equivalent)
IEC 537:1976	BS 5721:1979 <i>Specification for frequency weighting for the measurement of aircraft noise (D-weighting)</i> (Identical)
IEC 625:1979	BS 6146 <i>An interface system for programmable measuring instruments (byte serial, bit parallel)</i> Part 1:1981 <i>Specification for functional, electrical and mechanical requirements, system applications and requirements for designer and user</i> (Identical)
IEC 651:1979	BS 5969:1981 <i>Specification for sound level meters</i> (Identical)
IEC 942:1988	BS 7189:1989 <i>Specification for sound calibrators</i> (Identical)
ISO 266:1975	BS 3593:1963 <i>Recommendation on preferred frequencies for acoustical measurements</i> (Technically equivalent)

The Technical Committee has reviewed the provisions of EIA-RS 232, to which reference is made in **10.4**, and has decided that they are acceptable for use in conjunction with this standard.

This standard, which is of American origin, is in widespread use throughout the world and copies are available from The Electronic Industries Association, Engineering Department, Standards Sales Office, 2001 Eye Street, NW Washington DC 20006, USA.

Textual error. When adopting the text of the International Standard, the textual error given below was discovered. It has been marked in the text and has been reported to the International Electrotechnical Commission in a proposal to amend the text of the International Standard.

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In Table D.I of Appendix D, the heading of the last column “D weighting” should
Δ
read “Lin”.

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.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

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.

English version

Integrating-averaging sound level meters

(includes amendment A2:1994)
(IEC 804:1985 + A1:1989)

Sonomètres intégrateurs-moyenneurs
(inclut l'amendement A2:1994)
(CEI 804:1985 + A1:1989)

Integrierende mittelwertbildende
Schallpegelmesser
(enthält Änderungen A2:1994)
(IEC 804:1985 + A1:1989)

This European Standard was approved by CENELEC on 1993-12-08. 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

As a consequence of the IEC-CENELEC Agreement, HD 499 S1:1990 (IEC 804:1985 + A1:1989) 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 60804 on 8 December 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-12-01
- latest date of withdrawal of conflicting national standards (dow) —

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given only for information. In this standard, Appendix A, Appendix C and Appendix D are informative and Appendix B and Annex ZA are normative.

Foreword to Amendment A2

The text of document 29(CO)204, as prepared by IEC Technical Committee No. 29: Electroacoustics, was submitted to the IEC-CENELEC parallel vote in March 1993.

The reference document was approved by CENELEC as amendment A2 to EN 60804 on 8 December 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-12-01
- latest date of withdrawal of conflicting national standards (dow) 1994-12-01

Annexes designated “normative” are part of the body of the standard. In this standard, Annex ZA is normative.