

Specification for

Pure tone air conduction threshold audiometry for hearing conservation purposes —

[ISO title: Acoustics — Pure tone air
conduction threshold audiometry for
hearing conservation purposes]

The European Standard EN 26189:1991 has the status of a
British Standard.

UDC 534.61.7:612.85:331.483

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Environment and Pollution Standards Committee (EPC/-) to Technical Committee EPC/1 upon which the following bodies were represented:

- Association of Consulting Engineers
- BEAMA (Transmission and Distribution Association)
- British Broadcasting Corporation
- British Occupational Hygiene Society
- British Telecommunications plc
- Department of Health and Social Security
- Department of the Environment (Building Research Establishment)
- Department of Trade and Industry (National Physical Laboratory)
- Health and Safety Executive
- Incorporated Association of Architects and Surveyors
- Institute of Acoustics
- Institute of Occupational Hygienists
- Institute of Physics
- Institute of Sound and Vibration Research
- Institution of Electronic and Radio Engineers
- Institution of Municipal Engineers
- Petroleum Industry Association
- Royal Institute of British Architects
- Society of Environmental Engineers

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

- British Association of Otolaryngologists
- British Society of Audiology
- Confederation of British Industry
- Medical Research Council
- Ministry of Defence
- Motor Industry Research Association
- Royal College of Surgeons of England
- Royal National Institute for the Deaf
- Royal Society of Medicine

This British Standard, having been prepared under the direction of the Environment and Pollution Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 January 1986

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The following BSI references relate to the work on this standard:
Committee reference EPC/1
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Amendments issued since publication

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National foreword

This British Standard, which has been prepared under the direction of the Environment and Pollution Standards Committee, is identical with ISO 6189:1983 “Acoustics — Pure tone air conduction threshold audiometry for hearing conservation purposes”. The international standard was prepared by Technical Committee 43, Acoustics, of the International Organization for Standardization (ISO) as a result of discussion in which the UK played an active part.

In 1991 the European Committee for Standardization (CEN) accepted ISO 6189:1983 as European Standard EN 26189:1991.

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; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross- references

International standards	Corresponding British Standards
ISO 4869:1981	BS 5108:1983 Method of measurement of sound attenuation of hearing protectors (Identical)
IEC 303:1970	BS 4668:1971 An acoustic coupler (IEC reference type) for the calibration of earphones used in audiometry (Technically equivalent)
IEC 318:1970	BS 4669:1971 An artificial ear of the wide band type for the calibration of earphones used in audiometry (Technically equivalent)
IEC 645:1979	BS 5966:1980 Specification for audiometers (Identical)

The Technical Committee has reviewed the provisions of ISO 389, to which reference is made in the text and has decided that they are acceptable for use in conjunction with this standard. The recommended reference equivalent threshold sound pressure levels in a coupler in accordance with IEC 303, given in the Table to ISO 389, are identical with those given in the columns for the Beyer DT 48 earphones with flat cushion and the Telephonics TDH-39 earphones with MX41/AR cushion, in Table 1 of BS 2497 “Specification for a reference zero for the calibration of pure-tone audiometers”, Part 2:1969 “Data for certain earphones used in commercial practice”.

Typographical error. In clause 3, line 5, “couple” should be read as “coupler” and in 5.3.1.1, line 1, “experience” should be read as “experienced”.

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 and ii, the EN title page, pages 2 to 12, 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.

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Descriptors: Acoustics, audiometry, audiometers, specifications, acoustic measurements, testing conditions, acoustic tests

English version

Acoustics — Pure tone air conduction threshold audiometry for hearing conservation purposes

(Identical with ISO 6189:1983)

Acoustique — Audiométrie liminaire tonale en conduction aérienne pour les besoins de la préservation de l'ouïe
(Identique à l'ISO 6189:1983)

Akustik — Reinton-Luftleitungs-Schwellenaudiometrie für die Gehörvorsorge
(Identisch mit ISO 6189:1983)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN 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 CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

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

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Foreword

This European Standard has been taken over by CEN/TC 211 “Acoustics” from the work of the International Organization for Standardization (ISO).

This document has been submitted to the formal vote and has been approved.

National Standards identical to this European Standard shall be published at the latest by 92-04-09 and conflicting national standards shall be withdrawn at the latest by 92-04-09.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.