

Electroacoustics — Audiometric equipment —

Part 3: Test signals of short duration

The European Standard EN 60645-3:2007 has the status of a British Standard

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National foreword

This British Standard is the UK implementation of EN 60645-3:2007. It is identical to IEC 60645-3:2007. It supersedes BS EN 60645-3:1995 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/29, Electroacoustics.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Audiometric equipment -
Part 3: Test signals of short duration
(IEC 60645-3:2007)**

Electroacoustique -
Equipements audiométriques -
Partie 3: Signaux d'essai de courte durée
(CEI 60645-3:2007)

Akustik -
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Teil 3: Kurzzeit-Hörprüfsignale
(IEC 60645-3:2007)

This European Standard was approved by CENELEC on 2007-06-01. 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.

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CENELEC

European Committee for Electrotechnical Standardization
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Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 29/595/CDV, future edition 2 of IEC 60645-3, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 60645-3 on 2007-06-01.

This European Standard supersedes EN 60645-3:1995.

Specific changes in EN 60645-3:2007 concern new figures of reference signals and changes in definitions.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
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- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2010-06-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive MDD (93/42/EEC). See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60645-3:2007 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

Developments in the field of hearing measurements for diagnostic, hearing conservation and rehabilitation purposes have resulted in the availability of a wide range of audiometers. In addition it is possible to consider the audiometer in terms of a set of functional units that can be specified independently. By specifying these functional units it is then possible to specify the performance of other audiometric equipment that uses these units. IEC 60645, *Electroacoustics – Audiometric equipment*, consists of a number of parts. Part 3 covers the requirements for reference and other test signals of short duration.

Examples of test methods, where such signals are commonly used, are the recording of brainstem evoked potentials and evoked otoacoustic emissions. Reference signals are described in order to provide a basis for calibration and as a recommendation for use when there is no specific reason to have an alternative signal. The method of measurement of acoustic and vibratory signals is described.