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Acoustics - Reference zero for the calibration of audiometric equipment - Part 6: Reference hearing threshold levels for test signals of short duration

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EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

<p>Käesolev Eesti standard EVS-EN ISO 389-6:2008 sisaldab Euroopa standardi EN ISO 389-6:2007 ingliskeelset teksti.</p>	<p>This Estonian standard EVS-EN ISO 389-6:2008 consists of the English text of the European standard EN ISO 389-6:2007.</p>
<p>Standard on kinnitatud Eesti Standardikeskuse 28.01.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p>	<p>This standard is ratified with the order of Estonian Centre for Standardisation dated 28.01.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p>
<p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on .</p>	<p>Date of Availability of the European standard text .</p>
<p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>The standard is available from Estonian standardisation organisation.</p>

ICS 13.140

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Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

ICS 13.140

English Version

Acoustics - Reference zero for the calibration of audiometric
equipment - Part 6: Reference threshold of hearing for test
signals of short duration (ISO 389-6:2007)

Acoustique - Zéro de référence pour l'étalonnage
d'équipements audiométriques - Partie 6: Niveaux
liminaires d'audition de référence pour signaux d'essai de
courte durée (ISO 389-6:2007)

Akustik - Bezugsschwellen zur Kalibrierung von
Audiometern - Teil 6: Äquivalente Bezugsschwellen-
Schalldruckpegel für akustische Kurzzeit-Testsignale (ISO
389-6:2007)

This European Standard was approved by CEN on 30 June 2007.

CEN 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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN ISO 389-6:2007) has been prepared by Technical Committee ISO/TC 43 "Acoustics" in collaboration with Technical Committee CEN/TC 211 "Acoustics" the secretariat of which is held by DS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2008, and conflicting national standards shall be withdrawn at the latest by January 2008.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 389-6:2007 has been approved by CEN as a EN ISO 389-6:2007 without any modification.

Introduction

IEC 60645-3 specifies audiometric test signals of short duration. These short-duration signals consist of clicks and tone-bursts, and they are used in different diagnostic tests, e.g. in Evoked Response Audiometry such as auditory electrophysiology (electrocochleography, auditory brainstem responses, etc.), and transient evoked otoacoustic emissions. This part of ISO 389 specifies reference threshold values for the short-duration signals.

The reference hearing threshold data for specific transducers described herein will promote agreement and uniformity in the expression of results of hearing threshold measurements.

Acoustics — Reference zero for the calibration of audiometric equipment —

Part 6: Reference threshold of hearing for test signals of short duration

1 Scope

This part of ISO 389 specifies reference hearing threshold levels for tests signals of short duration applicable to the calibration of audiometric equipment where such signals are used.

NOTE 1 Some notes on different parameters and their effects on threshold levels are given in Annex A.

NOTE 2 Preferred test conditions for determining hearing thresholds for standardization are specified in ISO 389-9.

2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 389-1, *Acoustics — Reference zero for the calibration of audiometric equipment — Part 1: Reference equivalent threshold sound pressure levels for pure tones and supra-aural earphones*

IEC 60318-1, *Electroacoustics — Simulators of human head and ear — Part 1: Ear simulator for the calibration of supra-aural and circumaural earphones*

IEC 60318-4, *Electroacoustics — Simulators of human head and ear — Part 4: Occluded-ear simulator for the measurement of earphones coupled to the ear by inserts*¹⁾

IEC 60318-6, *Electroacoustics — Simulators of human head and ear — Part 6: Mechanical coupler for the measurements on bone vibrators*²⁾

IEC 61094-1, *Measurement microphones — Part 1: Specifications for laboratory standard microphones*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 389-1 and the following apply.

3.1

short-duration signal

signal having a duration of less than 200 ms

1) Revision of IEC 60711:1981.

2) Revision of IEC 60373:1990.