

Acoustics - Reference zero for the calibration of audiometric equipment - Part 5: Reference equivalent threshold sound pressure levels for pure tones in the frequency range 8 kHz to 16 kHz (ISO/TR 389-5:1998)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 389-5:2000 sisaldab Euroopa standardi EN ISO 389-5:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.06.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 389-5:2000 consists of the English text of the European standard EN ISO 389-5:1999.</p> <p>This document is endorsed on 16.06.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This standard specifies reference equivalent threshold sound pressure levels (RETSLs) of pure tones in the frequency range from 8 kHz to 16 kHz, applicable to calibration of air conduction audiometers for specific earphones.</p>	<p>Scope: This standard specifies reference equivalent threshold sound pressure levels (RETSLs) of pure tones in the frequency range from 8 kHz to 16 kHz, applicable to calibration of air conduction audiometers for specific earphones.</p>
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ICS 13.140

Võtmesõnad: acoustics, audiometers, audiometry, auditory threshold, calibration, reference data, sound pressure

ICS 13.140

English version

Acoustics

Reference zero for the calibration of audiometric equipment

Part 5: Reference equivalent threshold sound pressure levels for pure tones in the frequency range 8 kHz to 16 kHz

(ISO/TR 389-5 : 1998)

Acoustique – Zéro normal de référence pour l'étalonnage d'équipements audiométriques – Partie 5: Niveaux de référence équivalents de pression acoustique liminaire pour les sons purs dans le domaine de fréquences de 8 kHz à 16 kHz (ISO/TR 389-5 : 1998)

Akustik – Standard-Bezugspegel für die Kalibrierung audiometrischer Geräte – Teil 5: Äquivalente Bezugs-Schwellenschalldruckpegel für reine Töne im Frequenzbereich von 8 kHz bis 16 kHz (ISO/TR 389-5 : 1998)

This European Standard was approved by CEN on 1999-10-03.

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 Central Secretariat or to any CEN member.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Technical Report

ISO/TR 389-5 : 1998 Acoustics – Reference zero for the calibration of audiometric equipment – Part 5: Reference equivalent threshold sound pressure levels for pure tones in the frequency range 8 kHz to 16 kHz,

which was prepared by ISO/TC 43 'Acoustics' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 211 'Acoustics', the Secretariat of which is held by DS, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by May 2000 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Technical Report ISO/TR 389-5 : 1998 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

Introduction

An International Standard for extended high-frequency audiometers has been published, IEC 60645-4. Adaptors to be used with the IEC 60318-1 ear simulator to provide an interim acoustic coupler for the calibration of audiometric earphones in the extended high-frequency range are being standardized in IEC/TC 29 (IEC 60318-2). The reference equivalent threshold sound pressure levels for specific earphones described in this Technical Report enable calibration of those audiometers which are equipped with these earphones, in order to promote agreement and uniformity in the expression of hearing threshold level measurements worldwide.

1 Scope

This part of ISO 389 specifies reference equivalent threshold sound pressure levels (RETSPLs) of pure tones in the frequency range from 8 kHz to 16 kHz, applicable to the calibration of air conduction audiometers for specific earphones.

NOTE Some notes and references on the derivation and the test conditions used to determine the recommended reference levels are given in annex A and the Bibliography.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 389. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 389 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 389-1:—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.*

ISO 389-2:1994, *Acoustics — Reference zero for the calibration of audiometric equipment — Part 2: Reference equivalent threshold sound pressure levels for pure tones and insert earphones.*

IEC 60318-1:1998¹⁾, *Electroacoustics — Simulators of human head and ear — Part 1: Ear simulator for the calibration of supra-aural earphones.*

IEC 60318-2:1998¹⁾, *Electroacoustics — Simulators of human head and ear — Part 2: An interim acoustic coupler for the calibration of audiometric earphones in the extended high-frequency range.*

IEC 60645-1, *Audiometers — Part 1: Pure-tone audiometers.*

IEC 60711, *Occluded ear simulator for the measurement of earphones coupled to the ear by ear inserts.*

1) To be published.