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Audiometers - Part 4: Equipment for extended high-frequency audiometry



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60645-4:2001 sisaldab Euroopa standardi EN 60645-4:1995 ingliskeelset teksti.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

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English version

Audiometers

Part 4: Equipment for extended high-frequency audiometry

(IEC 645-4: 1994)

Audiomètres

Partie 4: Equipement pour l'audiometrie étendue au domaine des fréquences été ées

(CEI 645-4: 1994)

Audiometer

Teil 4: Geräte für die Audiometrie in einem

erweiterten Hochtonbereich

(IEC 645-4: 1994)

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CENELEC

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

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Foreword

The text of document 29(CO)215, future edition 1 of IEC 645-4, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60645-4 on 1994-12-06.

The following dates were fixed:

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EN has with plane in the properties of the Control of the standard or by endorsement (a...)

latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-1961

Annexes designated 'normative' are part of the Control of the standard. In this standard, annex ZA is normative. Annex ZA has been added by CENELEC. latest date by which th EN has to be

Introduction

This International Standard describes equipment which is designed for the measurement of hearing in the frequency range from 8 000 Hz to 16 000 Hz. Part 1 of IEC 645 specifies the requirements for pure tone audiometers with frequencies within the conventional range for audiometry from 125 Hz to 8 000 Hz. Many of the requirements are common for both frequency ranges and therefore this standard includes only

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AUDIOMETERS

Part 4: Equipment for extended high-frequency audiometry

1 Scope

This International Standard specifies requirements for audiometric equipment designed for use in pure tone audiometry in the frequency range from 8 000 Hz to 16 000 Hz, in addition to those that are applicable and specified in IEC 645-1.

The purpose of the standard is to ensure that extended high-frequency audiometry performed on a given human ear with different types of equipment which comply with this standard shall give substantially similar results.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 645. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 645 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 645-1: 1992, Audiometers - Part 1: Pure tone audiometers

ISO 389-7: Acoustics – Reference zero for the calibration of audiemetric equipment – Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions (Revision of ISO 226:1987)*

ISO 8253-1: 1991, Acoustics - Audiometric test methods - Part 1: Basic pure tone air and bone conduction threshold audiometry

ISO 266: 1975, Acoustics - Preferred frequencies for measurements

ISO 8253-2: 1992, Acoustics – Audiometric test methods – Part 2: Sound Field Audiometry with pure tone and narrow-band test signals

3 Explanation of terms

For the purpose of this standard the following terms apply:

3.1 extended high-frequency: An audiometric test frequency in the range from 8 000 Hz to 16 000 Hz.

NOTE - The frequency 8 000 Hz is considered both as the highest frequency in the conventional range and as the lowest frequency of the extended high-frequency range

At present at the stage of draft.