



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60645-5:2005**

ICS 17.140.50

**ELECTROACOUSTICS - AUDIOMETRIC  
EQUIPMENT PART 5: INSTRUMENTS FOR  
THE MEASUREMENT OF AURAL ACOUSTIC  
IMPEDANCE/ADMITTANCE (IEC 60645-5:2004)**

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EUROPEAN STANDARD

**EN 60645-5**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2005

ICS 17.140.50

Supersedes EN 61027:1993

English version

**Electroacoustics –  
Audiometric equipment  
Part 5: Instruments for the measurement  
of aural acoustic impedance/admittance  
(IEC 60645-5:2004)**

Electroacoustique –  
Appareillage audiométrique  
Partie 5: Instruments pour la mesure  
de l'impédance ou de l'admittance aurale  
(impédancemètres ou admittancemètres)  
(CEI 60645-5:2004)

Akustik –  
Audiometer  
Teil 5: Geräte zur Messung der  
akustischen Impedanzen/Admittanzen  
des Gehörs  
(IEC 60645-5:2004)

This European Standard was approved by CENELEC on 2004-12-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 29/563/FDIS, future edition 1 of IEC 60645-5, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60645-5 on 2004-12-01.

This European Standard supersedes EN 61027:1993.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2005-09-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn   | (dow) | 2007-12-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60645-5:2004 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

- |           |      |   |
|-----------|------|---|
| ISO 389-1 | NOTE | Harmonized as EN ISO 389-1:2000 (not modified). |
| ISO 389-2 | NOTE | Harmonized as EN ISO 389-2:1996 (not modified). |
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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60126	- <sup>1)</sup>	IEC reference coupler for the measurement of hearing aids using earphones coupled to the ear by means of ear inserts	HD 305 S1	1977 <sup>2)</sup>
IEC 60601-1	- <sup>1)</sup>	Medical electrical equipment Part 1: General requirements for safety	EN 60601-1	1990 <sup>2)</sup>
IEC 60601-1-2	- <sup>1)</sup>	Medical electrical equipment Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests	EN 60601-1-2	2001 <sup>2)</sup>
IEC 60601-1-4	- <sup>1)</sup>	Medical electrical equipment Part 1-4: General requirements for safety - Collateral standard: Programmable electrical medical systems	EN 60601-1-4	1996 <sup>2)</sup>
IEC 60645-1	2001	Electroacoustics - Audiological equipment Part 1: Pure-tone audiometers	EN 60645-1	2001
BIPM/IEC/IFCC/ ISO/IUPAP/OIML	- <sup>1)</sup>	Guide to the expression of uncertainty in measurement (GUM)	-	-

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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