



**NSAI**  
Standards

Irish Standard  
I.S. EN 80000-14:2009

# Quantities and units -- Part 14: Telebiometrics related to human physiology (IEC 80000-14:2008 (EQV))

## I.S. EN 80000-14:2009

*Incorporating amendments/corrigenda issued since publication:*

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

**EN 80000-14**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2009

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ICS 01.060

English version

**Quantities and units -  
Part 14: Telebiometrics related to human physiology  
(IEC 80000-14:2008)**

Grandeurs et unités -  
Partie 14: Télébiométrie  
relative à la physiologie humaine  
(CEI 80000-14:2008)

Größen und Einheiten -  
Teil 14: Telebiometrische Identifizierung  
unter den Bedingungen  
der Physiologie des Menschen  
(IEC 80000-14:2008)

This European Standard was approved by CENELEC on 2009-04-01. 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.

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**CENELEC**

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

**Central Secretariat: avenue Marnix 17, B - 1000 Brussels**

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## Foreword

The text of the International Standard IEC 80000-14:2008, prepared by IEC TC 25, Quantities and units, in co-operation with ISO/TC 12, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 80000-14 on 2009-04-01 without any modification.

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) 2010-04-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2012-04-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 80000-14:2008 was approved by CENELEC as a European Standard without any modification.

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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 When 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>
ISO 80000-1	- <sup>1)</sup>	Quantities and units - Part 1: General	-	-
ISO 80000-3	2006	Quantities and units - Part 3: Space and time	-	-
ISO 80000-4	2006	Quantities and units - Part 4: Mechanics	-	-
ISO 80000-5	- <sup>2)</sup>	Quantities and units - Part 5: Thermodynamics	-	-
IEC 80000-6	- <sup>2)</sup>	Quantities and units - Part 6: Electromagnetism	EN 80000-6	2008 <sup>3)</sup>
ISO 80000-7	- <sup>2)</sup>	Quantities and units - Part 7: Light	-	-
ISO 80000-8	- <sup>2)</sup>	Quantities and units - Part 8: Acoustics	EN ISO 80000-8	2007 <sup>3)</sup>
ISO 80000-9	- <sup>2)</sup>	Quantities and units - Part 9: Physical chemistry and molecular physics	-	-
ISO 80000-10	- <sup>1)</sup>	Quantities and units - Part 10: Atomic and nuclear physics	-	-
ITU-T Recommendation X.1081	- <sup>2)</sup>	The telebiometric multimodal model - A framework for the specification of security and safety aspects of telebiometrics	-	-
VIM	2008	International Vocabulary of Metrology - Basic and General Concepts and Associated Terms	-	-

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<sup>1)</sup> At draft stage.

<sup>2)</sup> Undated reference.

<sup>3)</sup> Valid edition at date of issue.

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**QUANTITIES AND UNITS –**
**Part 14: Telebiometrics related to human physiology****FOREWORD**

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International Standard IEC 80000-14 has been prepared by IEC technical committee 25: Quantities and units, and their letter symbols.

The text of this part of IEC 80000 is based on the following documents:

FDIS	Report on voting
25/366/FDIS	25/372/RVD

Full information on the voting for the approval of this part of IEC 80000 can be found in the report on voting indicated in the above table.

This international standard has been prepared in co-operation with ISO/TC 12.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.



The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IEC 80000 consists of the following parts, under the general title *Quantities and units*:

*Part 6: Electromagnetism*

*Part 13: Information science and technology*

*Part 14: Telebiometrics related to human physiology*

The following parts are published by ISO:

*Part 1: General*

*Part 2: Mathematical signs and symbols for use in the natural sciences and technology*

*Part 3: Space and time*

*Part 4: Mechanics*

*Part 5: Thermodynamics*

*Part 7: Light*

*Part 8: Acoustics*

*Part 9: Physical chemistry and molecular physics*

*Part 10: Atomic and nuclear physics*

*Part 11: Characteristic numbers*

*Part 12: Solid state physics*

## 0 Introduction

Subclauses 0.1 to 0.5 are text that is common to many Parts of ISO/IEC 80000. Some of this text is not applicable to this Part of ISO/IEC 80000, but is included for consistency with other parts. Subclause 0.6 is specific to this part of ISO/IEC 80000.

### 0.1 Arrangement of the tables

The tables of quantities and units in ISO/IEC 80000 are arranged so that the quantities are presented on the left-hand pages and the units on the corresponding right-hand pages.

All units between two full lines on the right-hand pages belong to the quantities between the corresponding full lines on the left-hand pages.

Where the numbering of an item has been changed in the revision of a part of ISO 31, the number in the preceding edition is shown in parenthesis on the left-hand page under the new number for the quantity; a dash is used to indicate that the quantity in question did not appear in the preceding edition.

### 0.2 Tables of quantities

The names in English and in French of the most important quantities within the field of this part of ISO/IEC 80000 are given together with their symbols and, in most cases, definitions. These names and symbols are recommendations. The definitions are given for identification of the quantities in the International System of Quantities (ISQ), listed on the left hand pages of the Tables in this part of ISO/IEC 80000; they are not intended to be complete.

The scalar, vectorial or tensorial character of quantities is pointed out, especially when this is needed for the definitions.

In most cases only one name and only one symbol for the quantity are given; where two or more names or two or more symbols are given for one quantity and no special distinction is made, they are on an equal footing. When two types of italic letters exist (for example as with  $\vartheta$  and  $\theta$ ;  $\varphi$  and  $\phi$ ;  $a$  and  $\alpha$ ;  $g$  and  $g$ ) only one of these is given. This does not mean that the other is not equally acceptable. It is recommended that such variants should not be given different meanings. A symbol within parenthesis implies that it is a reserve symbol, to be used when, in a particular context, the main symbol is in use with a different meaning.

In this English edition the quantity names in French are printed in an italic font, and are preceded by *fr*. The gender of the French name is indicated by (m) for masculine and (f) for feminine, immediately after the noun in the French name.

### 0.3 Tables of units

#### 0.3.1 General

The names of units for the corresponding quantities are given together with the international symbols and the definitions. These unit names are language-dependent, but the symbols are international and the same in all languages. For further information, see the SI Brochure (8<sup>th</sup> edition 2006) from BIPM and ISO 80000-1.

The units are arranged in the following way:

- a) The coherent SI units are given first. The SI units have been adopted by the General Conference on Weights and Measures (Conférence Générale des Poids et Mesures, CGPM). The coherent SI units, and their decimal multiples and submultiples formed with the SI prefixes, are recommended, although the decimal multiples and submultiples are not explicitly mentioned.
- b) Some non-SI units are then given, being those accepted by the International Committee for Weights and Measures (Comité International des Poids et Mesures, CIPM), or by the International Organization of Legal Metrology (Organisation Internationale de Métrologie Légale, OIML), or by ISO and IEC, for use with the SI. Such units are separated from the SI units in the item by use of a broken line between the SI units and the other units.

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