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ELEKTRISEADMETE HINDAMISEKS INIMESELE
TOIMIVATE ELEKTROMAGNETVÄLJADE PIIRANGUTE
JÄRGI SAGEDUSVAHEMIKUS (0 HZ - 300 GHZ)

Generic standard for assessment of electronic and
electrical equipment related to human exposure
restrictions for electromagnetic fields (0 Hz - 300 GHz)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 50665:2017 sisaldab Euroopa standardi EN 50665:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 50665:2017 consists of the English text of the European standard EN 50665:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 10.11.2017.	Date of Availability of the European standard is 10.11.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 13.280

English Version

**Generic standard for assessment of electronic and electrical
equipment related to human exposure restrictions for
electromagnetic fields (0 Hz - 300 GHz)**

Norme de produit relative à l'évaluation des équipements
électroniques et électriques en relation avec les restrictions
d'exposition humaine aux champs électromagnétiques (0
Hz - 300 GHz)

Fachgrundnorm für die Beurteilung von elektronischen und
elektrischen Geräten in Bezug auf Begrenzungen der
Exposition von Personen gegenüber elektromagnetischen
Feldern (0 Hz bis 300 GHz)

This European Standard was approved by CENELEC on 2017-09-11. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

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European foreword

This document (EN 50665:2017) has been prepared by the Technical Committee CENELEC/TC 106X "Electromagnetic fields in the human environment".

The following dates are fixed:

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|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2018-09-11 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2020-09-11 |

This European Standard has to be read in conjunction with EN 62311:2008 *"Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)"*.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and, and supports essential requirements of the Radio Equipment Directive 2014/53/EU (M/536) and the Low Voltage Directive 2014/35/EU (M/511).

For relationships with EU Directives, see informative Annexes ZZA and ZZB, which are an integral part of this document.

1 Scope

This European Standard applies to electronic and electrical equipment for which no dedicated harmonized product- or product family standard, or standard relating to low power equipment, regarding human exposure to electromagnetic fields exists. If such a standard does exist then it shall be used and this standard shall not. Annex A lists such harmonized standards available at the time of writing. This list may change with time. The current list of standards harmonized under each Directive should be consulted at the time of use of this standard.

The object of this generic standard is to provide a route for evaluation of such equipment against limits on human exposure to electric, magnetic and electromagnetic fields, and induced and contact current.

The frequency range covered is 0 Hz to 300 GHz.

This standard is intended to cover both intentional and non-intentional radiators.

NOTE 1 Other standards can apply to products covered by this document. In particular, this document is not designed to evaluate the electromagnetic compatibility with other equipment; nor does it reflect any product safety requirements other than those specifically related to human exposure to electromagnetic fields.

NOTE 2 This standard addresses only human exposure from the specific equipment under evaluation. There is an applicable putting-into service/*in situ* standard for equipment used by workers when at work:

EN 50664:2017. *Generic standard to demonstrate the compliance of equipment intended for use only by workers with limits on human exposure to electromagnetic fields (0 Hz - 300 GHz), when put into service or in situ.*

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 62311:2008, *Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)*

Council Recommendation 1999/519/EC of 12 July 1999, *on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)*, Official Journal, L199, of 1999-7-30, p.59-70

Directive 2013/35/EU of 26 June 2013, *on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields)*. Official Journal, L179, of 2013-6-29, p. 1–21

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

action levels

levels provided for practical exposure assessment purposes. They are derived from exposure limit values. Respect of the action level will ensure respect of the relevant exposure limit value. If the action level is exceeded, it does not necessarily follow that the exposure limit value will be exceeded

3.2

basic restrictions

restrictions on exposure of the general public to electric, magnetic and electromagnetic fields that are based directly on established health effects and biological considerations

3.3

exposure limit values

restrictions on exposure of workers to electric, magnetic and electromagnetic fields that are based directly on established health effects and biological considerations