

### SLOVENSKI STANDARD SIST EN 55016-1-1:2010

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SIST EN 55016-1-1:2007

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Specifikacija merilnih naprav in metod za merjenje radijskih motenj in odpornosti - 1-1. del: Merilne naprave za merjenje radijskih motenj in odpornosti - Merilne naprave

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus (Standards.iten.a)

Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Teil 1-1: Geräte und Einrichtungen zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Messgeräte

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Partie 1-1: Appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Appareils de mesure

Ta slovenski standard je istoveten z: EN 55016-1-1:2010

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magnetnih veličin and magnetic quantities

33.100.20 Imunost Immunity

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SIST EN 55016-1-1:2010

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#### EUROPEAN STANDARD

#### EN 55016-1-1

### NORME FUROPÉENNE **EUROPÄISCHE NORM**

March 2010

ICS 33.100.10

Supersedes EN 55016-1-1:2007 + A1:2007 + A2:2008

**English version** 

#### Specification for radio disturbance and immunity measuring apparatus and methods -

### Part 1-1: Radio disturbance and immunity measuring apparatus -Measuring apparatus

(CISPR 16-1-1:2010)

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques -

Partie 1-1: Appareils de mesure and des perturbations radioélectriques et de l'immunité aux perturbations ndards, ite Störaussendung (Funkstörungen) radioélectriques - Appareils de mesure (CISPR 16-1-1:2010)

Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit -PTeil 1-1: Geräte und Einrichtungen zur Messung der hochfrequenten und Störfestigkeit - Messgeräte SIST EN 55016-1-1:201(CISPR 16-1-1:2010)

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This European Standard was approved by CENELEC on 2010-03-01. 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, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

### **CENELEC**

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

#### **Foreword**

The text of document CIS/A/867/FDIS, future edition 3 of CISPR 16-1-1, prepared by CISPR SC A, Radio-interference measurements and statistical methods, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 55016-1-1 on 2010-03-01.

This European Standard supersedes EN 55016-1-1:2007 + A1:2007 + A2:2008.

This main technical change with respect to EN 55016-1-1:2007 and its amendments consists of the addition of new provisions for the use of spectrum analyzers for compliance measurements.

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

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) 2010-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2013-03-01

Annex ZA has been added by CENELEC.

### iTeh STANDARD PREVIEW

### (standards it ebuci)

The text of the International Standard <u>CISPR\16\1\1\1\2010</u>) was approved by CENELEC as a European Standard without any modification, itch ai/catalog/standards/sist/d91c1ea9-f877-48de-92ac-

dfa2a572bdb9/sist-en-55016-1-1-2010

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

[1]	CISPR 16-1-2:2003	NOTE	Harmonized as EN 55016-1-2:2004 (not modified).
[2]	CISPR 16-1-3:2004	NOTE	Harmonized as EN 55016-1-3:2006 (not modified).
[3]	CISPR 16-1-4:2007	NOTE	Harmonized as EN 55016-1-4:2007 (not modified).
[4]	CISPR 16-1-5:2003	NOTE	Harmonized as EN 55016-1-5:2004 (not modified).
[5]	CISPR 16-2 series	NOTE	Harmonized in EN 55016-2 series (not modified).
[6]	CISPR 16-2-4:2003	NOTE	Harmonized as EN 55016-2-4:2004 (not modified).
[7]	CISPR 16-4 series	NOTE	Harmonized in EN 55016-4 series (not modified).
[9]	CISPR 16-4-2:2003	NOTE	Harmonized as EN 55016-4-2:2004 (not modified).

## 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>	EN/HD	<u>Year</u>
CISPR 11 (mod)	2009	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	EN 55011	2009
CISPR 14-1	2005	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -	EN 55014-1	2006
CISPR 16-2-1	2008	Part 1: Emission Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements  1. 2010  1	EN 55016-2-1	2009
CISPR 16-2-2	https://sta 2003	Specification for radio disturbance and	EN 55016-2-2	2004
+ A1 + A2	2004 2005	immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power	+ A1 + A2	2005 2005
CISPR 16-2-3	2006	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	EN 55016-2-3	2006
CISPR 16-3 + A1 + A2	2003 2005 2006	Specification for radio disturbance and immunity measuring apparatus and methods - Part 3: CISPR technical reports	- - -	- - -
IEC 60050-161 + A1 + A2	1990 1997 1998	International Electrotechnical Vocabulary (IEV) - Chapter 161: Electromagnetic compatibility	-	- -
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### **CISPR 16-1-1**

Edition 3.0 2010-01

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES

BASIC EMC PUBLICATION STANDARD PREVIEW PUBLICATION FONDAMENTALE EN CEM

(standards.iteh.ai)

Specification for radio disturbance and immunity measuring apparatus and methods – https://standards.iteh.ai/catalog/standards/sist/d91c1ea9-f877-48de-92ac-

Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques – Partie 1-1: Appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques – Appareils de mesure

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

### SPECIFICATION FOR RADIO DISTURBANCE AND IMMUNITY MEASURING APPARATUS AND METHODS –

## Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus

#### **FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard CISPR 16-1-1 has been prepared by CISPR subcommittee A: Radio-interference measurements and statistical methods.

This third edition cancels and replaces the second edition published in 2006, and its Amendments 1 (2006) and 2 (2007). It is a technical revision.

This main technical change with respect to the previous edition consists of the addition of new provisions for the use of spectrum analyzers for compliance measurements.

It has the status of a basic EMC publication in accordance with IEC Guide 107, Electromagnetic compatibility – Guide to the drafting of electromagnetic compatibility publications.

The text of this standard is based on the following documents:

FDIS	Report on voting	
CISPR/A/867/FDIS	CISPR/A/881/RVD	

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

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

A list of all parts of the CISPR 16 series can be found, under the general title *Specification for radio disturbance and immunity measuring apparatus and methods*, on the IEC website.

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.

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IMPORTANT – The "colour inside" logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

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#### INTRODUCTION

The CISPR 16 series, published under the general title *Specification for radio disturbance and immunity measuring apparatus and methods,* is comprised of the following sets of standards and reports:

- CISPR 16-1 five parts covering measurement instrumentation specifications;
- CISPR 16-2 five parts covering methods of measurement;
- CISPR 16-3 a single publication containing various technical reports (TRs) with further information and background on CISPR and radio disturbances in general;
- CISPR 16-4 five parts covering uncertainties, statistics and limit modelling.

CISPR 16-1 consists of the following parts, under the general title Specification for radio disturbance and immunity measuring apparatus and methods – Radio disturbance and immunity measuring apparatus:

- Part 1-1: Measuring apparatus
- Part 1-2: Ancillary equipment Conducted disturbances
- Part 1-3: Ancillary equipment Disturbance power
- Part 1-4: Ancillary equipment Radiated disturbances
- Part 1-5: Antenna calibration test sites for 30 MHz to 1 000 MHz

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### SPECIFICATION FOR RADIO DISTURBANCE AND IMMUNITY MEASURING APPARATUS AND METHODS –

## Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus

#### 1 Scope

This part of CISPR 16 specifies the characteristics and performance of equipment for the measurement of radio disturbance in the frequency range 9 kHz to 18 GHz. In addition, requirements are provided for specialized equipment for discontinuous disturbance measurements.

NOTE In accordance with IEC Guide 107, CISPR 16-1-1 is a basic EMC standard for use by product committees of the IEC. As stated in Guide 107, product committees are responsible for determining the applicability of the EMC standard. CISPR and its sub-committees are prepared to co-operate with product committees in the evaluation of the value of particular EMC tests for specific products.

The specifications in this standard apply to EMI receivers and spectrum analyzers. The term "measuring receiver" used in this standard refers to both EMI receivers and spectrum analyzers.

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Further guidance on the use of use of spectrum analyzers and scanning receivers can be found in Annex B of any one of the following standards: CISPR 16-2-1, CISPR 16-2-2 or CISPR 16-2-3.

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2 Normative references dfa2a572bdb9/sist-en-55016-1-1-2010

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.

CISPR 11:2009, Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement

CISPR 14-1:2005, Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission Amendment 1 (2008)

CISPR 16-2-1:2008, Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements

CISPR 16-2-2:2003, Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-2: Methods of measurement of disturbances and immunity – Measurement of disturbance power

Amendment 1 (2004)

Amendment 2 (2005)

CISPR 16-2-3:2006, Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements