

### SLOVENSKI STANDARD SIST EN 55016-2-3:2010

01-december-2010

Nadomešča:

SIST EN 55016-2-3:2007

Specifikacija merilnih naprav in metod za merjenje radijskih motenj in odpornosti - 2-3. del: Metode za merjenje radijskih motenj in odpornosti - Merjenje sevanih motenj

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

iTeh STANDARD PREVIEW

Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Teil 2-3: Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Messung der gestrahlten Störaussendung

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Partie 2-3: Méthodes de mesure des perturbations et de l'immunité - Mesures des perturbations rayonnées

Ta slovenski standard je istoveten z: EN 55016-2-3:2010

ICS:

17.240 Merjenje sevanja Radiation measurements

33.100.20 Imunost Immunity

SIST EN 55016-2-3:2010 en,fr,de

SIST EN 55016-2-3:2010

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 55016-2-3:2010</u> https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-fe6cf02eb347/sist-en-55016-2-3-2010 EUROPEAN STANDARD

EN 55016-2-3

NORME FUROPÉENNE **EUROPÄISCHE NORM** 

June 2010

ICS 33.100.10; 33.100.20

Supersedes EN 55016-2-3:2006

English version

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

Part 2-3: Methods of measurement of disturbances and immunity -Radiated disturbance measurements

(CISPR 16-2-3:2010)

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

Partie 2-3: Méthodes de mesure des perturbations et de l'immunité -Mesures des perturbations rayonnées and site (Funkstörungen) und Störfestigkeit -(CISPR 16-2-3:2010)

Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit -NDARD PTeil 2-3: Verfahren zur Messung der nochfrequenten Störaussendung Messung der gestrahlten Störaussendung

SIST EN 55016-2-3:201(CISPR 16-2-3:2010)

https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8fe6cf02eb347/sist-en-55016-2-3-2010

This European Standard was approved by CENELEC on 2010-06-01. 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

#### **Foreword**

The text of document CISPR/A/886/FDIS, future edition 3 of CISPR 16-2-3, 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 55016-2-3 on 2010-06-01.

This European Standard supersedes EN 55016-2-3:2006.

This EN 55016-2-3:2010 includes the following significant technical changes with respect to EN 55016-2-3:2006: addition of the measurand for radiated emissions measurements in an OATS and a SAC in the range of 30 MHz to 1 000 MHz, and addition of a new normative annex on the determination of suitability of spectrum analysers for compliance tests. Also, numerous maintenance items are addressed to make the standard current with respect to other parts of the EN 55016 series.

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*.

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.

2011-03-01

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
   Teh STANDARD PRE
- latest date by which the national standards conflicting with the EN have to be withdrawntandards.iteh.ai) (dow)
   2013-06-01

Annex ZA has been added by CENELECIST EN 55016-2-3:2010

https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-fe6cf02eb347/sist-en-55016-2-3-2010

#### **Endorsement notice**

The text of the International Standard CISPR 16-2-3:2010 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:

 [1] CISPR 11:2009
 NOTE
 Harmonized as EN 55011:2009 (modified).

 [3] CISPR 22:2008
 NOTE
 Harmonized as EN 55022:200X 1) (modified).

 [4] IEC 61140:2001
 NOTE
 Harmonized as EN 61140:2002 (not modified).

 [6] ISO/IEC 17000:2004
 NOTE
 Harmonized as EN ISO/IEC 17000:2004 (not modified).

 [7] IEC 61000-4-21
 NOTE
 Harmonized as EN 61000-4-21.

\_

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

### 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 14-1	2005	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	EN 55014-1	2006
CISPR 16-1-1	iT	Specification for radio disturbance and immunity measuring apparatus and methods Part 1-1: Radio disturbance and immunity measuring apparatus	EN 55016-1-1 - -	-
CISPR 16-1-2	2003 https://star	Specification for radio disturbance and immunity measuring apparatus and methods Part 1-2: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances	EN 55016-1-2 - 7-b6a8-	2004
CISPR 16-1-4	2010	Specification for radio disturbance and immunity measuring apparatus and immunity measuring apparatus and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	EN 55016-1-4 -	2010
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	EN 55016-2-1 -	2009
CISPR 16-4-1	-	Specification for radio disturbance and immunity measuring apparatus and methods Part 4-1: Uncertainties, statistics and limit modelling - Uncertainties in standardized EM0 tests		-
CISPR 16-4-2	-	Specification for radio disturbance and immunity measuring apparatus and methods Part 4-2: Uncertainties, statistics and limit modelling - Uncertainty in EMC measurements	EN 55016-4-2 -	-
CISPR/TR 16-4-5	-	Specification for radio disturbance and immunity measuring apparatus and methods Part 4-5: Uncertainties, statistics and limit modelling - Conditions for the use of alternative test methods	- -	-

EN 55016-2-3:2010

- 4 -

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-161	1990	International Electrotechnical Vocabulary (IEV) - Chapter 161: Electromagnetic compatibility	-	-
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2006
IEC 61000-4-20	-	Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques - Emission and immunity testing in transverse electromagnetic (TEM) waveguides	EN 61000-4-20	-

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 55016-2-3:2010

https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-fe6cf02eb347/sist-en-55016-2-3-2010



### **CISPR 16-2-3**

Edition 3.1 2010-08

## 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/7d1b05b4-7218-45a7-b6a8-

Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques – Partie 2-3: Méthodes de mesure des perturbations et de l'immunité – Mesures des perturbations rayonnées

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE CN

ICS 33.100.10; 33.100.20

ISBN 978-2-88912-123-6

#### - 2 - CISPR 16-2-3 © IEC:2010+A1:2010

#### CONTENTS

FO	REWC	)RD		7
1	Scop	e		10
2	Norm	ative re	ferences	10
3	Term	s and d	efinitions	11
4			urbance to be measured	
•	4.1		al	
	4.2		of disturbance	
	4.3	• •	or functions	
5			of measuring equipment	
6			surement requirements and conditions	
U	6.1		al	
	6.2		pance not produced by the equipment under test	
	0.2	6.2.1	General	
		6.2.2	Compliance (conformity assessment) testing	
	6.3	-	rement of continuous disturbance	
	0.0	6.3.1	Narrowband continuous disturbance	
		6.3.2	Broadband continuous disturbance	
	6.4	Operat	Use of spectrum analyzers and scanning receivers ing conditions of the EUT	18
		6.4.1	Normal load conditions dards.iteh.ai)	18
		6.4.2	The time of operation	18
		6.4.3	Running-in time SISTEN 55016-2-3:2010	18
		6.4.4	shttps://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-	18
		6.4.5	Running-in time SIST EN 55016-2-3:2010 Strpp/ytandards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8- Mode of operation.	18
	6.5	Interpre	etation of measuring results	
		6.5.1	Continuous disturbance	18
		6.5.2	Discontinuous disturbance	
		6.5.3	Measurement of the duration of disturbance	
	6.6	Measu	rement times and scan rates for continuous disturbance	
		6.6.1	General	
		6.6.2	Minimum measurement times	
		6.6.3	Scan rates for scanning receivers and spectrum analyzers	
		6.6.4	Scan times for stepping receivers	
		6.6.5	Strategies for obtaining a spectrum overview using the peak detector	
7	N4	6.6.6	Timing considerations using FFT-based instruments	
7			t of radiated disturbances	
	7.1		ctory remarks	
	7.2		ntenna system measurements (9 kHz to 30 MHz)	
		7.2.1	General	
		7.2.2	General measurement method	
		7.2.3 7.2.4	Test environment	
		7.2.4 7.2.5	Configuration of the equipment under test	
	7.3		area test site or semi-anechoic chamber measurements (30 MHz to	აა
	1.5		l	33
		7.3.1	Measurand	

	7.3.2	Test site requirements	34
	7.3.3	General measurement method	
	7.3.4	Measurement distance	
	7.3.5	Antenna height variation	35
	7.3.6	Product specification details	35
	7.3.7	Measurement instrumentation	37
	7.3.8	Field-strength measurements on other outdoor sites	37
	7.3.9	Measurement uncertainty for OATS and SAC	
7.4	Fully-a	anechoic room measurements (30 MHz to 1 GHz)	38
	7.4.1	Test set-up and site geometry	38
	7.4.2	EUT position	40
	7.4.3	Cable layout and termination	41
	7.4.4	Measurement uncertainty for FAR	42
7.5	immur	ted emission measurement method (30 MHz to 1 GHz) and radiated nity test method (80 MHz to 1 GHz) with common test set-up in semioic chamber	42
	7.5.1	Applicability	42
	7.5.2	EUT perimeter definition and antenna-to-EUT separation distance	
	7.5.3	Uniform test volume	43
	7.5.4	Specifications for EUT set-up in common emissions/immunity test setup	44
	7.5.5	Measurement uncertainty for common emission/immunity set-up and method	49
7.6	Fully-a	anechoic room and absorber-lined OATS/SAC measurements (1 GHz	
	to 18 (	GHz)	49
	7.6.1	GHz)SIST EN 55016-2-3:2010 Quantity to measure https://standards.iteh.a/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-	49
	7.6.2	Measurement distance 47/sist-cn-55016-2-3-2010	49
	7.6.3	Set-up and operating conditions of the equipment under test (EUT)	
	7.6.4	Measurement site	
	7.6.5	Measurement instrumentation	
	7.6.6	Measurement procedure	
	7.6.7	Measurement uncertainty for FAR	
7.7		measurements (9 kHz to 18 GHz)	
	7.7.1	Applicability of and preparation for in situ measurements	57
	7.7.2	Field-strength measurements <i>in situ</i> in the frequency range 9 kHz to 30 MHz	58
	7.7.3	Field-strength measurements <i>in situ</i> in the frequency range above 30 MHz	59
	7.7.4	In situ measurement of the disturbance effective radiated power using the substitution method	60
	7.7.5	Documentation of the measurement results	64
	7.7.6	Measurement uncertainty for in situ method	64
7.8	Substi	tution measurements (30 MHz to 18 GHz)	64
	7.8.1	General	64
	7.8.2	Test site	64
	7.8.3	Test antennas	65
	7.8.4	EUT configuration	65
	7.8.5	Test procedure	65
	7.8.6	Measurement uncertainty for substitution method	66

7.9	Reverberation chamber measurements (80 MHz to 18 GHz)	66
7.10	TEM waveguide measurements (30 MHz to 18 GHz)	66
8 Auto	omated measurement of emissions	66
8.1	Introduction – precautions for automated measurements	66
8.2	Generic measurement procedure	67
8.3	Pre-scan measurements	67
	8.3.1 General	67
	8.3.2 Determination of the required measurement time	67
	8.3.3 Pre-scan requirements for different types of measurements	68
8.4	Data reduction	69
8.5	Emission maximization and final measurement	
8.6	Post-processing and reporting	
8.7	Emission measurement strategies with FFT-based measuring instruments	71
	(informative) Measurement of disturbances in the presence of ambient	72
	(informative) Use of spectrum analyzers and scanning receivers	
	C (informative) Scan rates and measurement times for use with the average	89
Annex E	(informative) Explanation of APD measurement method applying to the nce test	93
Annex E	(normative) Determination of suitability of spectrum analyzers for compliance	
	SIST EN 55016-2-3;2010	
Bibliogra	aphyhttps://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8	96
	Measurement of a combination of a CW signal (NB) and an impulsive signal ng multiple sweeps with maximum hold	23
Figure 2	2 – Example of a timing analysis	24
Figure 3	B – A broadband spectrum measured with a stepped receiver	25
	- Intermittent narrowband disturbances measured using fast short repetitive with maximum hold function to obtain an overview of the emission spectrum	26
_	5 – Concept of magnetic field induced current measurements made with the enna system	32
site (OA	5 – Concept of electric field strength measurements made on an open-area test TS) or semi-anechoic chamber (SAC) showing the direct and reflected rays at the receiving antenna	34
	' – Typical FAR site geometry, where $a,b,c,e$ depend upon the room ance	38
Figure 8	B – Typical test set-up for table-top equipment within the test volume of a FAR	39
Figure 9	0 – Typical test set-up for floor-standing equipment within the test volume of a	
	0 – Positions of reference planes for uniform field calibration (top-view)	
•	1 – Test set-up for table-top equipment	
•	2 – Test set-up for table-top equipment – Top view	
-		
	3 – Test set-up for floor-standing equipment	
Figure 1	4 - Test set-up for floor-standing equipment - Top view	48

Figure 15 – Measurement method above 1 GHz, receive antenna in vertical polarization	51
Figure 16 – Illustration of height scan requirements for two different categories of EUTs	53
Figure 17 – Determination of the transition distance	
Figure 18 – Substitution method set-up geometries for: a) measurement, b) calibration	
Figure 19 – Process to give reduction of measurement time	
Figure 20 – FFT scan in segments	
Figure 21 – Frequency resolution enhanced by FFT-based measuring instrument	29
Figure A.1 – Flow diagram for the selection of bandwidths and detectors and the estimated measurement errors due to that selection	74
Figure A.2 – Relative difference in adjacent emission amplitudes during preliminary testing	76
Figure A.3 – Disturbance by an unmodulated signal (dotted line)	77
Figure A.4 – Disturbance by an amplitude-modulated signal (dotted line)	77
Figure A.5 – Indication of an amplitude-modulated signal as a function of modulation frequency with the QP detector in CISPR bands B, C and D	
Figure A.6 – Indication of a pulse-modulated signal (pulse width 50 μs) as a function of pulse repetition frequency with peak, QP and average detectors	79
Figure A.7 – Disturbance by a broadband signal (dotted line)	
Figure A.8 – Unmodulated EUT disturbance (dotted line)	
Figure A.9 – Amplitude-modulated EUT disturbance (dotted line)	81
Figure A.10 – Increase of peak value with superposition of two unmodulated signals	82
Figure A.11 – Determination of the amplitude of the disturbance signal by means of the amplitude ratio $d$ and the factor $i$ [see Equation (A.3) and Equation (A.6)]	83
Figure A.12 – Increase of average indication measured with a real receiver and calculated from Equation (A.8)	84
Figure C.1 – Weighting function of a 10 ms pulse for peak (PK) and average detections with (CISPR AV) and without (AV) peak reading: meter time constant 160 ms	91
Figure C.2 – Weighting functions of a 10 ms pulse for peak (PK) and average detections with (CISPR AV) and without (AV) peak reading: meter time constant 100 ms	01
Figure C.3 – Example of weighting functions (of a 1 Hz pulse) for peak (PK) and average detections as a function of pulse width: meter time constant 160 ms	
Figure C.4 – Example of weighting functions (of a 1 Hz pulse) for peak (PK) and average detections as a function of pulse width: meter time constant 100 ms	92
Figure D.1 – Example of APD measurement Method 1 for fluctuating disturbances	93
Figure D.2 – Example of APD measurement Method 2 for fluctuating disturbances	94
Table 1 – Minimum scan times for the three CISPR bands with peak and quasi-peak detectors	20
Table 2 – Applicable frequency ranges and document references for CISPR radiated emission test sites and test methods	30
Table 3 – Minimum dimension of $w$ ( $w_{min}$ )	52
Table 4 – Example values of w for three antenna types	53
Table 5 – Horizontal polarization correction factors as a function of frequency	62
Table 6 – Recommended antenna heights to guarantee signal interception (for prescan) in the frequency range 30 MHz to 1 000 MHz	69

- 6 - CISPR 16-2-3 © IEC:2010+A1:2010

Table 7 – Minimum measurement times for the four CISPR bands	20
Table A.1 – Combinations of EUT disturbance and ambient emissions	73
Table A.2 – Measurement error depending on the detector type and on the combination of ambient and disturbing signal spectra	85
Table C.1 – Pulse suppression factors and scan rates for a 100 Hz video bandwidth	90
Table C.2 – Meter time constants and the corresponding video bandwidths and maximum scan rates	90
Table E.1 – Maximum amplitude difference between peak and quasi-peak detected signals	95

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 55016-2-3:2010 https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-fe6cf02eb347/sist-en-55016-2-3-2010

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

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

### Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements

#### **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.
- The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international
  consensus of opinion on the relevant subjects since each technical committee has representation from all
  interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.

  SISTEN 55016-2-3:2010
- 4) In order to promote international uniformity, EC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This consolidated version of CISPR 16-2-3 consists of the third edition (2010) [documents CISPR/A/886/FDIS and CISPR/A/892/RVD and its amendment 1 (2010) [documents CISPR/A/878/CDV and CISPR/A/894/RVC]. It bears the edition number 3.1.

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience. A vertical line in the margin shows where the base publication has been modified by amendment 1. Additions and deletions are displayed in red, with deletions being struck through.

International Standard CISPR 16-2-3 has been prepared by CISPR subcommittee A: Radio-interference measurements and statistical methods.

This edition includes the following significant technical changes with respect to the previous edition: addition of the measurand for radiated emissions measurements in an OATS and a SAC in the range of 30 MHz to 1 000 MHz, and addition of a new normative annex on the determination of suitability of spectrum analysers for compliance tests. Also, numerous maintenance items are addressed to make the standard current with respect to other parts of the CISPR 16 series.

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.

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

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

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability 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 **TANDARD PREVIEW** 

reconfirmed.

(standards.iteh.ai)

- · withdrawn,
- replaced by a revised edition, or <u>SIST EN 55016-2-3:2010</u>
- amended. https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-fe6cf02eb347/sist-en-55016-2-3-2010

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 document using a colour printer.

CISPR 16-2-3 © IEC:2010+A1:2010

**-9** -

## INTRODUCTION (to amendment 1)

The recent addition of FFT-based measuring instrumentation in CISPR 16-1-1 necessitates the addition of related specifications for the test methods covered in CISPR 16-2-3. Those new specifications are introduced in this amendment.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 55016-2-3:2010 https://standards.iteh.ai/catalog/standards/sist/7d1b05b4-7218-45a7-b6a8-fe6cf02eb347/sist-en-55016-2-3-2010