
Specifikacija za merilne naprave in metode za merjenje radijskih motenj in odpornosti – 2-2. del: Metode za merjenje radijskih motenj in odpornosti – Merjenje moči motenj (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 (CISPR 16-2-2:2003)

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English version

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

Spécifications des méthodes
et des appareils de mesure
des perturbations radioélectriques
et de l'immunité aux perturbations
radioélectriques
Partie 2-2: Méthodes de mesure
des perturbations et de l'immunité
Mesure de la puissance perturbatrice
(CISPR 16-2-2:2003)

Anforderungen an Geräte und
Einrichtungen sowie Festlegung der
Verfahren zur Messung der
hochfrequenten Störaussendung
(Funkstörungen) und Störfestigkeit
Teil 2-2: Verfahren zur Messung der
hochfrequenten Störaussendung
(Funkstörungen) und Störfestigkeit –
Messung der Störleistung
(CISPR 16-2-2:2003)

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[de301f73902b/sist-en-55016-2-2-2005](https://standards.iteh.ai/catalog/standards/sist/355016-2-2-2003)

This European Standard was approved by CENELEC on 2004-09-01. 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 the International Standard CISPR 16-2-2:2003, prepared by CISPR SC A, Radio-interference measurements and statistical methods, was submitted to the formal vote and was approved by CENELEC as EN 55016-2-2 on 2004-09-01 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) 2005-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2007-09-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard CISPR 16-2-2:2003 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> |
|--------------------|-------------|--|--------------|-------------|
| CISPR 13 (mod) | 2001 | Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement | EN 55013 | 2001 |
| CISPR 14-1 | 2000 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission | EN 55014-1 | 2000 |
| CISPR 16-1-1 | 2003 | Specification for radio disturbance and immunity measuring apparatus and methods Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus | EN 55016-1-1 | 2004 |
| CISPR 16-1-3 | 2003 | Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power | EN 55016-1-3 | 2004 |
| CISPR 16-2-1 | 2003 | Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements | EN 55016-2-1 | 2004 |
| CISPR 16-2-3 | 2003 | Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements | EN 55016-2-3 | 2004 |
| CISPR 16-2-4 | 2003 | Part 2-4: Methods of measurement of disturbances and immunity - Immunity measurements | EN 55016-2-4 | 2004 |
| CISPR/TR 16-3 | 2003 | Part 3: CISPR technical reports | - | - |
| CISPR/TR 16-4-1 | 2003 | Part 4-1: Uncertainties, statistics and limit modeling - Uncertainties in standardized EMC tests | - | - |
| CISPR 16-4-2 | 2003 | Part 4-2: Uncertainties, statistics and limit modelling - Uncertainty in EMC measurements | EN 55016-4-2 | 2004 |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|-------------------------------|-------------|---|--------------|-------------|
| CISPR/TR 16-4-3 | 2003 | Part 4-3: Uncertainties, statistics and limit modelling - Statistical considerations in the determination of EMC compliance of mass-produced products | - | - |
| ITU-R Recommendation BS.468-4 | 1994 | Measurement of audio-frequency noise voltage level in sound broadcasting | - | - |

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16-2-2

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ELECTROTECHNICAL
COMMISSION

Première édition
First edition
2003-11

COMITÉ INTERNATIONAL SPÉCIAL DES PERTURBATIONS RADIOÉLECTRIQUES
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

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

**Partie 2-2:
Méthodes de mesure des perturbations
et de l'immunité – Mesure de la puissance
perturbatrice**

SIST EN 55016-2-2:2005

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de301f73902b/sist-en-55016-2-2-2005](https://standards.iteh.ai/catalog/standards/sist/3558ac18-84c4-4304-9731-de301f73902b/sist-en-55016-2-2-2005)

**Specification for radio disturbance and immunity
measuring apparatus and methods –**

**Part 2-2:
Methods of measurement of disturbances and
immunity – Measurement of disturbance power**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

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

**Part 2-2: Methods of measurement of disturbances and immunity –
Measurement of disturbance power**

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

This first edition of CISPR 16-2-2, together with CISPR 16-2-1, CISPR 16-2-3 and CISPR 16-2-4, cancels and replaces the second edition of CISPR 16-2, published in 2003. It contains the relevant clauses of CISPR 16-2 without technical changes.

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 2005. At this date, the publication will be

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

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INTRODUCTION

CISPR 16-1, CISPR 16-2, CISPR 16-3 and CISPR 16-4 have been reorganised into 14 parts, to accommodate growth and easier maintenance. The new parts have also been renumbered. See the list given below.

| Old CISPR 16 publications | | New CISPR 16 publications | |
|---------------------------|---|---------------------------|---|
| CISPR 16-1 | Radio disturbance and immunity measuring apparatus | CISPR 16-1-1 | Measuring apparatus |
| | | CISPR 16-1-2 | Ancillary equipment – Conducted disturbances |
| | | CISPR 16-1-3 | Ancillary equipment – Disturbance power |
| | | CISPR 16-1-4 | Ancillary equipment – Radiated disturbances |
| | | CISPR 16-1-5 | Antenna calibration test sites for 30 MHz to 1 000 MHz |
| CISPR 16-2 | Methods of measurement of disturbances and immunity | CISPR 16-2-1 | Conducted disturbance measurements |
| | | CISPR 16-2-2 | Measurement of disturbance power |
| | | CISPR 16-2-3 | Radiated disturbance measurements |
| | | CISPR 16-2-4 | Immunity measurements |
| CISPR 16-3 | Reports and recommendations of CISPR | CISPR 16-3 | CISPR technical reports |
| | | CISPR 16-4-1 | Uncertainties in standardised EMC tests |
| | | CISPR 16-4-2 | Measurement instrumentation uncertainty |
| | | CISPR 16-4-3 | Statistical considerations in the determination of EMC compliance of mass-produced products |
| CISPR 16-4 | Uncertainty in EMC measurements | CISPR 16-4-4 | Statistics of complaints and a model for the calculation of limits |

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More specific information on the relation between the 'old' CISPR 16-2 and the present 'new' CISPR 16-2-2 is given in the table after this introduction (TABLE RECAPITULATING CROSS REFERENCES).

Measurement instrumentation specifications are given in five new parts of CISPR 16-1, while the methods of measurement are covered now in four new parts of CISPR 16-2. Various reports with further information and background on CISPR and radio disturbances in general are given in CISPR 16-3. CISPR 16-4 contains information related to uncertainties, statistics and limit modelling.

CISPR 16-2 consists of the following parts, under the general title *Specification for radio disturbance and immunity measuring apparatus and methods – Methods of measurement of disturbances and immunity*:

- Part 2-1: Conducted disturbance measurements,
- Part 2-2: Measurement of disturbance power,
- Part 2-3: Radiated disturbance measurements,
- Part 2-4: Immunity measurements.

TABLE RECAPITULATING CROSS-REFERENCES

| Second edition of CISPR 16-2 Clauses, subclauses | First edition of CISPR 16-2-2 Clauses, subclauses |
|---|--|
| 1.1 | 1 |
| 1.2 | 2 |
| 1.3 | 3 |
| 2.1 | 4 |
| 2.2 | 5 |
| 2.3 | 6 |
| 2.5 | 7 |
| 4.1 | 8 |
| Annexes | Annexes |
| C | A |
| B | B |
| Figures | Figures |
| 1, ..., 4 | 1, ..., 4 |
| 17 | 5 |

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