



SLOVENSKI STANDARD
SIST EN 55022:1995

01-april-1995

Limits and methods of radio disturbance characteristics of information technology equipment

Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Grenzwerte und Meßverfahren für Funkstörungen von Einrichtungen der Informationstechnik

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Limites et méthodes de mesure des caractéristiques de perturbations radioélectriques produites par les appareils de traitement de l'information

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EUROPEAN STANDARD

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NORME EUROPEENNE

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ENGLISH VERSION

Limits and methods of measurement of radio
disturbance characteristics of information
technology equipment
(CISPR 22:1993)

Limites et méthodes de mesure
des caractéristiques de
perturbations radioélectriques
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Meßverfahren für
Funkstörungen von
Einrichtungen der
Informationstechnik
(CISPR 22:1993)

This European Standard was approved by CENELEC on 1992-12-09.
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
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CENELEC members are the national electrotechnical committees of Austria, Belgium,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
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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

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Ref. No. EN 55022:1994 E

Foreword

At the request of the CENELEC Sub-Committee SC 110A, EMC Products, a number of Draft International Standards containing proposed amendments to CISPR Publication 22 were submitted to the CENELEC Unique Acceptance Procedure (UAP) for acceptance as amendments to the European Standard EN 55022:1987.

The CISPR Publication and the relevant DIS were combined by IEC into a new edition of CISPR 22, the text of which was approved by CENELEC as EN 55022 on 1992-12-09.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-12-15
- latest date of withdrawal of conflicting national standards (dow) 1995-12-31

For products which have complied with EN 55022:1987 before 1995-12-31, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-12-31.

Annexes designated "normative" are part of the body of the standard. In this standard, annexes A and ZA are normative.

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The text of the International Standard CISPR 22:1993 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Other international publications quoted in this standard
with the references of the relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE: When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Date</u>	<u>Title</u>	<u>EN/HD</u>	<u>Date</u>
IEC 83	1975	Plugs and socket-outlets for domestic and similar general use - Standards	-	-
IEC 625	series	An interface system for programmable measuring instruments (byte serial, bit parallel)	HD 414	series
CISPR 11 (mod)	1990	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment	EN 55011	1991
CISPR 16	1987	CISPR specification for radio interference measuring apparatus and measurement methods	-	-
NOTE: To be used until CISPR 16-2 is available.				
CISPR 16-1	1993	Specification for radio disturbance and immunity measuring apparatus and methods Part 1: Radio disturbance and immunity measuring apparatus	-	-
CISPR 16-2	19XX	Part 2: Methods of disturbance and immunity measurements (under consideration)	-	-
CCITT V.24	1993	List of definitions for interchange circuits, between data terminal equipment (DTE) and data circuit terminating equipment (DCE)	-	-

COMMISSION
ÉLECTROTECHNIQUE
INTERNATIONALE

CISPR 22

Deuxième édition
Second edition
1993-12

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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

**Limites et méthodes de mesure
des caractéristiques de perturbations
radioélectriques produites par les appareils
de traitement de l'information**

**Limits and methods of measurement of
radio disturbance characteristics of
information technology equipment**



Numéro de référence
Reference number
CISPR 22: 1993

Révision de la présente publication

Le contenu technique des publications de la CEI est constamment revu par la Commission afin d'assurer qu'il reflète bien l'état actuel de la technique.

Les renseignements relatifs à ce travail de révision, à l'établissement des éditions révisées et aux mises à jour peuvent être obtenus auprès des Comités nationaux de la CEI et en consultant les documents ci-dessous:

- Bulletin de la CEI
- Annuaire de la CEI
- Catalogue des publications de la CEI
Publié annuellement

Terminologie

En ce qui concerne la terminologie générale, le lecteur se reportera à la Publication 50 de la CEI: Vocabulaire Electrotechnique International (VEI), qui est établie sous forme de chapitres séparés traitant chacun d'un sujet défini, l'Index général étant publié séparément. Des détails complets sur le VEI peuvent être obtenus sur demande.

Les termes et définitions figurant dans la présente publication ont été soit repris du VEI, soit spécifiquement approuvés aux fins de cette publication.

Symboles graphiques et littéraux

Pour les symboles graphiques, symboles littéraux et signes d'usage général approuvés par la CEI, le lecteur consultera:

- la Publication 27 de la CEI: Symboles littéraux à utiliser en électrotechnique;
- la Publication 617 de la CEI: Symboles graphiques pour schémas.

Les symboles et signes contenus dans la présente publication ont été soit repris des Publications 27 ou 617 de la CEI, soit spécifiquement approuvés aux fins de cette publication.

Publications de la CEI établies par le même Comité d'Etudes

L'attention du lecteur est attirée sur le deuxième feuillet de la couverture, qui énumère les publications de la CEI préparées par le Comité d'Etudes qui a établi la présente publication.

Revision of this publication

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology.

Information on the work of revision, the issue of revised editions and amendment sheets may be obtained from IEC National Committees and from the following IEC sources:

- IEC Bulletin
- IEC Yearbook
- Catalogue of IEC Publications
Published yearly

Terminology

For general terminology, readers are referred to IEC Publication 50: International Electrotechnical Vocabulary (IEV), which is issued in the form of separate chapters each dealing with a specific field, the General Index being published as a separate booklet. Full details of the IEV will be supplied on request.

The terms and definitions contained in the present publication have either been taken from the IEV or have been specifically approved for the purpose of this publication.

Graphical and letter symbols

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to:

- IEC Publication 27: Letter symbols to be used in electrical technology;
- IEC Publication 617: Graphical symbols for diagrams.

The symbols and signs contained in the present publication have either been taken from IEC Publications 27 or 617, or have been specifically approved for the purpose of this publication.

IEC publications prepared by the same Technical Committee

The attention of readers is drawn to the back cover, which lists IEC publications issued by the Technical Committee which has prepared the present publication.

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

**LIMITS AND METHODS OF MEASUREMENT OF
RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION
TECHNOLOGY EQUIPMENT**

FOREWORD

1) The formal decisions of the CISPR on technical matters, prepared by sub-committees on which all the National Committees and other Member Organizations of the CISPR having a special interest therein are represented, express, as nearly as possible, an international consensus on the subjects dealt with.

2) They have the form of recommendations for international use and they are accepted by the National Committees and other Member Organizations of the CISPR in that sense.

3) In order to promote international unification, the CISPR expresses the wish that all National Committees should adopt the text of the CISPR recommendations for their national rules in so far as national conditions will permit. Any divergence between the CISPR recommendations and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

This publication has been prepared by CISPR, sub-committee G: Interference relating to information technology equipment.

[SIST EN 55022:1995](https://standards.iteh.ai/catalog/standards/sist/48936ff-5197-41b3-8a39-158d50066027/sist-cpr55022-1995)

This second edition replaces the first edition, published in 1985.

The text of this publication is based on the first edition and on the following documents:

Six Months' Rule / DIS	Reports on voting	Two Months' Procedure	Report on voting
CISPR/G(CO)2 CISPR/G(CO)9 CISPR/G(CO)11 to 14	CISPR/G(CO)4 CISPR/G(CO)18 CISPR/G(CO)21 to 24	CISPR/G(CO)5	CISPR/G(CO)17

Full information on the voting for the approval of this CISPR publication can be found in the voting reports indicated in the above table.

Annex A forms an integral part of this standard.

INTRODUCTION

The scope is extended to the whole radio frequency range from 9 kHz to 400 GHz, but limits are formulated only in restricted frequency bands which is considered sufficient to reach adequate emission levels to protect radio broadcast and telecommunication services and to allow other apparatus to operate as intended at reasonable distance.

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LIMITS AND METHODS OF MEASUREMENT OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT

1 Scope and object

This standard applies to ITE as defined in 3.1.

Procedures are given for the measurement of the levels of spurious signals generated by the ITE and limits are specified for the frequency range 9 kHz to 400 GHz for both Class A and Class B equipment. No measurements need be performed at frequencies where no limits are specified.

The intention of this standard is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

2 Normative references

The following standards are referred to in this publication:

IEC 83: 1975, *Plugs and socket-outlets for domestic and similar general use – Standards*

IEC 625, *An interface system for programmable measuring instruments (byte serial, bit parallel)*

CISPR 11: 1990, *Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific, and medical (ISM) radio-frequency equipment*

CISPR 16: 1987, *CISPR specification for radio interference measuring apparatus and measurement methods*

CISPR 16-1: 1993, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1: Radio disturbance and immunity measuring apparatus*

CISPR 16-2: 19XX, *CISPR specification for radio disturbance and immunity measuring apparatus and methods – Part 2: Methods of disturbance and immunity measurements (under consideration)*

NOTE – CISPR 16 (1987) should be used until CISPR 16-2 is available.

CCITT V.24: 1993, *List of definitions for interchange circuits, between data terminal equipment (DTE) and data circuit terminating equipment (DCE)*