

SLOVENSKI STANDARD
SIST EN 55016-1-4:2007/A2:2010
01-december-2010

Specifikacija za merilne naprave in metode za merjenje radijskih motenj in odpornosti - 1-4. del: Merilne naprave za merjenje radijskih motenj in odpornosti - Pomožna oprema - Sevane motnje - Dodatek A2

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Radiated disturbances

Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Teil 1-4: Geräte und Einrichtungen zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Zusatz-/Hilfseinrichtungen - Gestrahlte Störaussendung

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Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Partie 1-4: Appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Matériels auxiliaires - Perturbations rayonnées

Ta slovenski standard je istoveten z: EN 55016-1-4:2007/A2:2009

ICS:

17.240	Merjenje sevanja	Radiation measurements
33.100.20	Imunost	Immunity

SIST EN 55016-1-4:2007/A2:2010 **en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 55016-1-4/A2

July 2009

ICS 33.100.10; 33.100.20

English version

**Specification for radio disturbance
and immunity measuring apparatus and methods -
Part 1-4: Radio disturbance and immunity measuring apparatus -
Ancillary equipment -
Radiated disturbances
(CISPR 16-1-4:2007/A2:2008)**

Spécifications des méthodes
et des appareils de mesure des perturbations
radioélectriques et de l'immunité
aux perturbations radioélectriques -
Partie 1-4: Appareils de mesure
des perturbations radioélectriques
et de l'immunité
aux perturbations radioélectriques -
Matériels auxiliaires -
Perturbations rayonnées
(CISPR 16-1-4:2007/A2:2008)

Anforderungen an Geräte und Einrichtungen
sowie Festlegung
der Verfahren zur Messung
der hochfrequenten Störaussendung
(Funkstörungen) und Störfestigkeit -
Teil 1-4: Geräte und Einrichtungen
zur Messung der hochfrequenten
Störaussendung (Funkstörungen)
und Störfestigkeit -
Zusatz-/Hilfseinrichtungen -
Gestrahlte Störaussendung
(CISPR 16-1-4:2007/A2:2008)

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This amendment A2 modifies the European Standard EN 55016-1-4:2007; it was approved by CENELEC on 2009-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, 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 CISPR/A/786/FDIS, future amendment 2 to CISPR 16-1-4:2007, 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 amendment A2 to EN 55016-1-4:2007 on 2009-07-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2010-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2012-07-01

Endorsement notice

The text of amendment 2:2008 to the International Standard CISPR 16-1-4:2007 was approved by CENELEC as an amendment to the European Standard without any modification.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

AMENDMENT 2
AMENDEMENT 2

iTeh STANDARD PREVIEW
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**Specification for radio disturbance and immunity measuring apparatus and methods –
Part 1-4: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Radiated disturbances**

**Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques –
Partie 1-4: Appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques – Matériels auxiliaires –
Perturbations rayonnées**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

C

FOREWORD

This amendment has been prepared by subcommittee A: Radio-interference measurements and statistical methods, of IEC technical committee CISPR: International special committee on radio interference.

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

FDIS	Report on voting
CISPR/A/786/FDIS	CISPR/A/795/RVD

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

The committee has decided that the contents of this amendment and the base 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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Page 3

CONTENTS

Add the titles of the new subclauses as follows:

9.5 Specification of ferrite clamp type CMAD

9.6 CMAD performance (degradation) check using spectrum analyser (SA) and tracking generator (TG)

After Figure 25 (of Amendment 1), add the title of the following new figure:

Figure 26 – Limits for the magnitude of S_{11} , measured according to 9.1 to 9.3

Page 13 of Amendment 1

Renumber Subclause 9.5 into 9.6 and insert the following new Subclause 9.5 :

9.5 Specification of ferrite clamp type CMAD

Ferrite clamp type CMADs are used during radiated measurements in the frequency range 30 MHz to 1 000 MHz for the purpose of reducing compliance uncertainty. The characteristics of a CMAD are measured according to 9.1 to 9.3 referenced to the characteristic impedance of the empty jig Z_{0_jig} .

A comparison of available ferrite clamp type CMADs has shown that a magnitude of S_{21} less than 0,25 is required to provide sufficient decoupling. These values can be achieved with CMADs having a magnitude of S_{11} as shown in Figure 26.

Ferrite clamp CMADs shall meet the following specifications:

- a) the magnitude of S_{21} shall be less than 0,25 in the frequency range 30 MHz to 200 MHz;
- b) the magnitude of S_{11} shall be within the following limit range in the frequency range 30 MHz to 200 MHz:
 - upper limit 0,75 at 30 MHz and 0,55 at 200 MHz (decreasing linearly with the logarithm of the frequency);
 - lower limit 0,6 at 30 MHz and 0,4 at 200 MHz (decreasing linearly with the logarithm of the frequency).

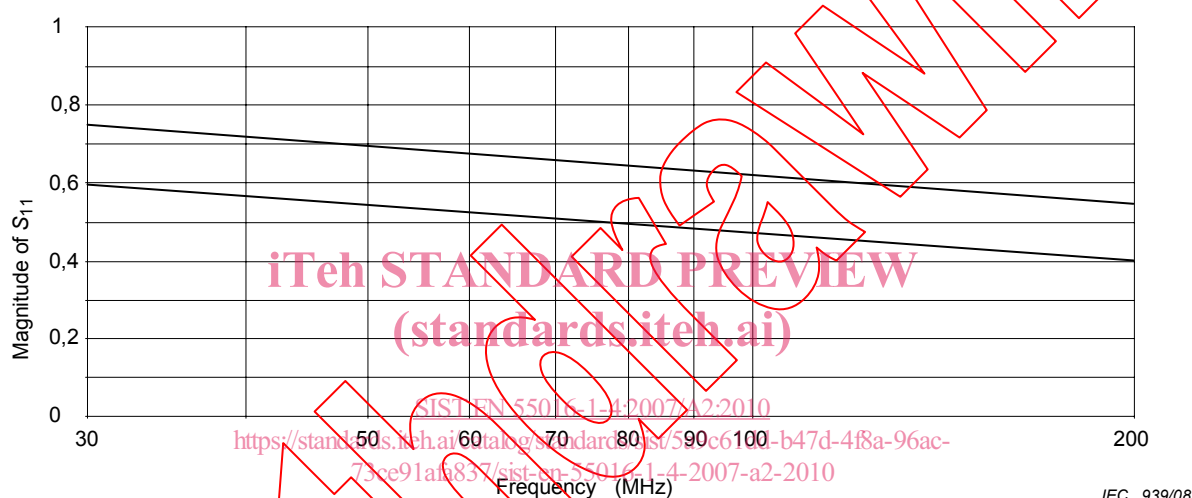


Figure 26 – Limits for the magnitude of S_{11} , measured according to 9.1 to 9.3

A specification in the frequency range from 200 MHz to 1 000 MHz is not required since radiated emission measurements are not seriously affected by cable termination conditions at these frequencies.

A rationale for using S-parameters for the specification of ferrite type CMADs is provided in CISPR 16-3:2003, Amendment 2, subclause 4.9.