



BSI Standards Publication

Specification for radio disturbance and immunity measuring apparatus and methods

Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power

National foreword

This British Standard is the UK implementation of EN 55016-1-3:2006+A2:2020. It is identical to CISPR 16-1-3:2004, incorporating amendments 1:2016 and 2:2020. It supersedes BS EN 55016-1-3:2006+A1:2016, which will be withdrawn on 6 February 2023.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CISPR text carry the number of the CISPR amendment. For example, text altered by CISPR amendment 1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee GEL/210/11, EMC - Standards Committee.

A list of organizations represented on this committee can be obtained on request to its secretary.

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31 May 2016	Implementation of CISPR amendment 1:2016 with CENELEC endorsement A1:2016
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English Version

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power (CISPR 16-1-3:2004)

Spécifications des méthodes et des appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Partie 1-3: Appareils de mesure des perturbations radioélectriques et de l'immunité aux perturbations radioélectriques - Matériels auxiliaires - Puissance perturbatrice (CISPR 16-1-3:2004)

Anforderungen an Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Teil 1-3: Geräte und Einrichtungen sowie Festlegung der Verfahren zur Messung der hochfrequenten Störaussendung (Funkstörungen) und Störfestigkeit - Zusatz-/Hilfseinrichtungen - Störleistungsmessung (CISPR 16-1-3:2004)

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

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EN 55016-1-3:2006+A2:2020 (E)

European foreword

The text of the International Standard CISPR 16-1-3:2004, prepared by CISPR SC A, Radio-interference measurements and statistical methods, was submitted to the CENELEC Unique Acceptance Procedure and was approved by CENELEC as EN 55016-1-3 on 2006-07-01.

This European Standard supersedes EN 55016-1-3:2004.

In this EN 55016-1-3:2006, a more detailed calibration method for the absorbing clamp is specified. Furthermore, new alternative calibration methods are introduced which are more practicable than the one that was specified previously. Additional parameters to describe the absorbing clamp are defined, like the decoupling factor for the broadband absorber (DF) and the decoupling factor for the current transformer (DR), along with their validation methods. A procedure for the validation of the absorbing clamp test site (ACTS) is also included in the document.

The following dates were fixed:

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Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard CISPR 16-1-3:2004, including the corrigendum February 2006, was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document CIS/A/1111/CDV, future CISPR 16-1-3:2004/A1, prepared by SC A "Radio interference measurements and statistical methods" of IEC/TC CISPR "International special committee on radio interference" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 55016-1-3:2006/A1:2016.

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Foreword to amendment A2

The text of document CIS/A/1305/FDIS, future CISPR 16-1-3/A2, prepared by CISPR SC A "Radio-interference measurements and statistical methods" of CISPR "International special committee on radio interference" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 55016-1-3:2006/A2:2020.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-02-26

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Endorsement notice

The text of the International Standard CISPR 16-1-3:2004/A2:2020 was approved by CENELEC as a European Standard without any modification.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE

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

**Part 1-3: Radio disturbance and immunity measuring apparatus –
Ancillary equipment – Disturbance power**

FOREWORD

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International Standard CISPR 16-1-3 has been prepared by CISPR subcommittee A: Radio interference measurements and statistical methods.

This second edition cancels and replaces the first edition published in 2003. It constitutes a technical revision. In this edition a more detailed calibration method for the absorbing clamp is specified. Furthermore, new alternative calibration methods are introduced which are more practicable than the one which was specified previously. Additional parameters to describe the absorbing clamp are defined, like the decoupling factor for the broadband absorber (DF) and the decoupling factor for the current transformer (DR), along with their validation methods. A procedure for the validation of the absorbing clamp test site (ACTS) is also included in the document.

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

FDIS	Report on voting
CISPR/A/517/FDIS	CISPR/A/532/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.

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.

The contents of the corrigendum of February 2006 have been included in this copy.

SPECIFICATION FOR RADIO DISTURBANCE AND IMMUNITY MEASURING APPARATUS AND METHODS –

Part 1-3: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Disturbance power

1 Scope

This part of CISPR 16 is designated a basic standard, which specifies the characteristics and calibration of the absorbing clamp for the measurement of radio disturbance power in the frequency range 30 MHz to 1 GHz.

2 Normative references

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 16-1-2:2003, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-2: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Conducted disturbances*

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*

Ⓐ₂ CISPR TR 16-4-1:2009, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-1: Uncertainties, statistics and limit modelling – Uncertainties in standardized EMC tests* Ⓐ₂

Ⓐ₂ Text deleted Ⓐ₂

IEC 60050-161:1990, *International Electrotechnical Vocabulary (IEV) – Chapter 161: Electromagnetic compatibility*
Amendment 1 (1997)
Amendment 2 (1998)

3 Terms, definitions and abbreviations

3.1 Terms and definitions

See IEC 60050-161, where applicable.

3.2 Abbreviations

ACA	Absorbing clamp assembly
ACMM	Absorbing clamp measurement method
ACRS	Absorbing clamp reference site
ACTS	Absorbing clamp test site
CF	Clamp factor
CRP	Clamp reference point
DF	Decoupling factor