AS/NZS CISPR 16.1.3:2020
CISPR 16-1-3:2004+AMD1:2016+AMD2:
2020 CSV

Australian/New Zealand Standard™

Specification for radio disturbance and immunity measuring apparatus and methods

Part 1.3: Radio disturbance and immunity measuring apparatus — Ancillary equipment — Disturbance power

AS/NZS CISPR 16.1.3:2020

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Originated as part of AS 1052.1—1976.
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Compatibility, to supersede AS/NZS CISPR 16.1.3:2004, *Specification for radio disturbance and immunity measuring apparatus and methods, Part 1.3: Radio disturbance and immunity measuring apparatus — Ancillary equipment — Disturbance power.*

The objective of this document is to specify the characteristics and calibration of the absorbing clamp for the measurement of radio disturbance power in the frequency range 30 MHz to 1 GHz.

This Standard is identical with, and has been reproduced from, CISPR 16-1-3:2004+AMD1:2016+AMD2:2020 CSV, *Specification for radio disturbance and immunity measuring apparatus and methods, Part 1-3: Radio disturbance and immunity measuring apparatus — Ancillary equipment — Disturbance power.*

The major changes in this edition are as follows:

(a) A more detailed calibration method for the absorbing clamp is specified.

(b) New alternative calibration methods are introduced.

(c) Additional parameters to describe the absorbing clamp are defined, eg decoupling factor for the broadband absorber (DF) and the decoupling factor for the current transformer (DR), including validation methods.

(d) A procedure for the validation of the absorbing clamp test site (ACTS).

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NOTES

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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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This Consolidated version is not an official IEC Standard and has been prepared for user convenience. Only the current versions of the standard and its amendment(s) are to be considered the official documents.

This Consolidated version of CISPR 16-1-3 bears the edition number 2.2. It consists of the second edition (2004-06) [documents CISPR/A/517/FDIS and CISPR/A/532/RVD] and its corrigendum 1 (2006-02), its amendment 1 (2016-03) [documents CIS/A/1111/CDV and CIS/A/1138/RVC] and its amendment 2 (2020-01) [documents CIS/A/1305/FDIS and CIS/A/1314/RVD]. The technical content is identical to the base edition and its amendments.

This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.

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

This edition 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.

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

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

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

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*

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*

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