

ISBN 978-0-626-26495-6

SANS 61000-6-4:2011

Edition 2.1 and IEC interpretation sheet 1 to IEC amdt 1

IEC 61000-6-4:2011

Edition 2.1 and interpretation sheet 1 to amdt 1

SOUTH AFRICAN NATIONAL STANDARD

Electromagnetic compatibility (EMC)

Part 6-4: Generic standards — Emission standard for industrial environments

This national standard is the identical implementation of IEC 61000-6-4:2011 and IEC interpretation sheet 1 to IEC amendment 1, and is adopted with the permission of the International Electrotechnical Commission.

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Table of changes

Change No.	Date	Scope
IEC amdt 1	2010	Amended to add new references and abbreviations, add definitions for "low voltage AC mains port" and "highest internal frequency", replace and add tables, and add the following two clauses: <i>Compliance with this standard</i> , and <i>Emission test requirements</i> .
IEC interpretation sheet 1 to IEC amdt 1	2011	Changed to indicate that the measurement instrumentation uncertainty shall be calculated and compared with the budgets defined in CISPR 16-4-2 (published in South Africa as an identical adoption under the designation SANS 216-4-2).

National foreword

This South African standard was approved by National Committee SABS TC 73, *Electromagnetic compatibility*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This SANS document was published in December 2011.

This SANS document supersedes SANS 61000-6-4:2011 (edition 2.1).

A specific edition of this SANS document has been regulated by the Independent Communications Authority of South Africa (ICASA). That edition, by reference, forms part of the *Regulations in respect of technical standards for electronic communications equipment*, also known as the *Official list of ICASA regulated standards for technical equipment and electronic communications facilities*, as published by Government Notice No. 46 of 2010 (Government Gazette No. 32885) of 22 January 2010.

To determine which edition of this standard has been regulated, the reader should consult these Regulations.

SC CIS/H/Publication IEC 61000-6-4 Amend. 1 2010, Second edition/I-SH

ELECTROMAGNETIC COMPATIBILITY (EMC) –

Part 6-4: Generic standards – Emission standard for industrial environments

INTERPRETATION SHEET

This interpretation sheet has been prepared by CISPR subcommittee H: Limits for the protection of radio services, of IEC technical committee CISPR: International special committee on radio interference.

The text of this interpretation sheet is based on the following documents:

FDIS	Report on voting
CISPR/H/218/FDIS	CISPR/H/223/RVD

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

Interpretation

The requirement in Clause 8 “Measurement uncertainty” of IEC 61000-6-4 Amend. 1 ed. 2.0:

8 Measurement uncertainty

The measurement instrumentation uncertainty shall be determined according to CISPR 16-4-2, where applicable.

NOTE For a given test method, the actual value of U_{lab} has only to be recorded in the test report if the value is greater than U_{CISPR} .

shall be interpreted as follows:

The measurement instrumentation uncertainty shall be calculated and compared with the budgets defined in CISPR 16-4-2. For each applicable test method, whose instrumentation uncertainty budgets are higher than those defined in CISPR 16-4-2, compliance with the limits has to be determined according to CISPR 16-4-2 methodology. This requirement is only applicable for tests where an uncertainty budget is defined in CISPR 16-4-2.

The additional note was further clarification that there is no need to state in the test report the laboratory uncertainty budget U_{lab} if this is less than or equal to the U_{CISPR} defined in CISPR 16-4-2. However, it has to be mentioned in the test report that the instrumentation measurement uncertainty is determined according to CISPR 16-4-2.

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IEC 61000-6-4

Edition 2.1 2011-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Electromagnetic compatibility (EMC) –
Part 6-4: Generic standards – Emission standard for industrial environments**

**Compatibilité électromagnétique (CEM) –
Partie 6-4: Normes génériques – Norme sur l'émission pour les environnements
industriels**

INTERNATIONAL
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ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

CF

ICS 33.100.10

ISBN 978-2-88912-337-7