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GUIDE FOR IN SITU MEASUREMENTS - IN SITU MEASUREMENT OF DISTURBANCE EMISSION

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English version

Guide for in situ measurements – In situ measurement of disturbance emission

Guide pour mesures in situ – Mesure in situ des émissions perturbatrices

Leitfaden für Messungen am Aufstellungsort – Störaussendungsmessungen am Aufstellungsort

This Technical Specification was approved by CENELEC on 2004-07-31.

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CENELEC

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

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Foreword

This Technical Specification was prepared by the Technical Committee CENELEC TC 210, Electromagnetic compatibility (EMC).

The text of the draft was submitted to the vote and was approved by CENELEC as CLC/TS 50217 on 2004-07-31.

The following date was fixed:

– latest date by which the existence of the CLC/TS has to be announced at national level (doa) 2005-11-11

Content

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1 Scope

This guide describes analysis methods of disturbance emission to be applied in situ for identification of the disturbance source and resolution of complaint. Where applicable, the methods rely on already published documents either in CENELEC or in IEC. It is not intended to be used for type testing or any kind of conformity assessment.

Dealing with effects on living matter is excluded from this document.

The frequency range of interest is from d.c. to 400 GHz.

This document applies for analysing an interference complaint. It provides method for identification and characterisation in situ of the source(s) of interference. It proposes procedures to discriminate different kind of sources. Reference in situ measurement distances are defined. It allows comparison of the results and of technical characteristics of the interfered equipment with existing relevant standards. The result of the comparison is intended to help in the resolution of the complaint.

It is meant for verifying the emissions from fixed installations whatever equipment they contain, and whatever have been the type tests of these equipment. It may be used to describe the coupling path for interference between the victim and the source, and to compare the measurement results with the limits from the adequate standard, at a specific location and in a given frequency band.

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.

EN 55011:1998, *Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement* (CISPR 11:1997, mod.) [dow: 2001-01-01]

EN 55011:1998/A1:1999 (CISPR 11:1997/A1:1999) [dow: 2002-08-01]

EN 55011:1998/A2:2002 (CISPR 11:1997/A2:2002) [dow: 2005-10-01]

EN 55016-1-X, series, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-X: Radio disturbance and immunity measuring apparatus* (CISPR 16-1-X, series) [dow: 2007-09-01]

EN 55016-1-2:2004, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances* (CISPR 16-1-2:2003) [dow: 2007-09-01]

EN 55016-1-2:2004/A1:2005 (CISPR 16-1-2:2003/A1:2004) [dow: 2008-02-01]

EN 55016-2-X, series, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-X: Methods of measurement of disturbances and immunity* (CISPR 16-2-X, series) [dow: 2007-09-01]

EN 55016-2-1:2004, *Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-X: Methods of measurement of disturbances and immunity - Conducted disturbance measurements* (CISPR 16-2-1:2003) [dow: 2007-09-01]

EN 55016-2-1:2004/A1:2005 (CISPR 16-2-1:2003/A1:2005) [dow: 2008-08-01]