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AS/NZS CISPR 16.2.5:2013

Australian/New Zealand Standard™

Specification for radio disturbance and immunity measuring apparatus and methods

Part 2.5: In situ measurements of disturbing emissions produced by physically large equipment

STANDARDS Australia

STANDARDS NEW ZEALAND PAEREWA AOTEAROA

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TE-003, Electromagnetic Interference. It was approved on behalf of the Council of Standards Australia on 31 May 2013 and on behalf of the Council of Standards New Zealand on 23 April 2013.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Interference.

The objective of this Standard is to provide a guide for in situ measurements of disturbing emissions by large equipment not covered by existing emission standards, e.g. AS/NZS CISPR 11 and AS/NZS CISPR 22.

This Standard is identical with, and has been reproduced from CISPR/TR 16-2-5, Ed. 1.0 (2008), *Specification for radio disturbance and immunity measuring apparatus and methods*—Part 2-5: *In situ measurements of disturbing emissions produced by physically large equipment.*

As this Standard is reproduced from an International Standard, the following applies:

(a) In the source text 'this part of CISPR 16' should read 'this Australian/New Zealand Standard'.

(b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian/New Zealand Standard*	
CISPR		AS/NZS CISPR	
16	Specification for radio disturbance and immunity measuring apparatus and methods	16	Specification for radio disturbance and immunity measuring apparatus and methods
16-1-1	Part 1-1: Radio disturbance and immunity measuring apparatus—Measuring apparatus	16.1.1	Part 1.1: Radio disturbance and immunity measuring apparatus—Measuring apparatus
16-1-2	Part 1-2: Radio disturbance and immunity measuring apparatus—Ancillary equipment—Conducted disturbances	16.1.2	Part 1.2: Radio disturbance and immunity measuring apparatus—Ancillary equipment—Conducted disturbances
16-1-4	Part 1-4: Radio disturbance and immunity measuring apparatus—Ancillary equipment—Radiated disturbances	16.1.4	Part 1.4: Radio disturbance and immunity measuring apparatus—Ancillary equipment—Radiated disturbances
16-2-1	Part 2-1: Methods of measurement of disturbances and immunity—Conducted disturbance measurements	16.2.1	Part 2.1: Methods of measurement of disturbances and immunity—Conducted disturbance measurements
16-2-3	Part 2-3: Methods of measurement of disturbances and immunity—Radiated disturbance measurements	16.2.3	Part 2.3: Methods of measurement of disturbances and immunity—Radiated disturbance measurements

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

CONTENTS

1 Scope 5
2 Normative references 5
3 Terms and definitions 6
4 Methodology 7
4.1 Structure of each measurement 7
4.2 Preliminary measurements and selection of measurement method 8
4.3 Selection of the EUT mode of operation and the reference point depending on the environment 8
4.4 Assessment of measurement results 9
5 Method of *in situ* measurement of conducted disturbance 9
5.1 General 9
5.2 Conducted emission measurement procedure 10
5.2.1 Connection conditions 10
5.2.2 Reference ground for *in situ* measurements 10
5.2.3 Disturbance voltage/current measurements on cables which carry wanted symmetrical signals 10
5.2.4 Disturbance voltage measurements on cables which do not carry wanted symmetrical signals 11
6 Method of *in situ* measurement of radiated disturbance 11
6.1 General 11
6.2 Measurement conditions 12
6.3 Measurement methods 12
6.3.1 Measurement parameters 12
6.3.2 Measurements in case of interference complaints 12
6.3.3 Measurements for compliance purposes 13
6.3.4 Measurements below 30 MHz 13
7 Measurement report 13

Bibliography 15

Figure 1 – Enclosure port 8

AUSTRALIAN/NEW ZEALAND STANDARD

Specification for radio disturbance and immunity measuring apparatus and methods

Part 2.5: In situ measurements of disturbing emissions produced by physically large equipment

1 Scope

This part of CISPR 16 deals with *in situ* electromagnetic disturbance measurements in an environment from physically large equipment and systems excluding networks.

It covers both radiated and conducted emission phenomena, and does not deal with immunity tests.

This technical report is intended to be applied primarily to such physically large equipment which are not under the scope of any existing emission standards (as for example CISPR 11 and CISPR 22). It serves only as a guideline on how to deal with emissions of that equipment at the particular location of installation. It does not establish any emission requirements.

NOTE 1 Although this technical report is intended to be applied to equipment which is not under the scope of any existing emission standards, it may be used also in such cases in order to serve as additional information for carrying out *in situ* measurements for any type of large equipment.

NOTE 2 Examples of large equipment are: production machines, conveyors, large displays, aircraft simulators, traffic control equipment, etc.

Due to the severe impact of the conditions existing at a particular location of operation and the use of the respective large equipment, however, it is not intended to use the measurements in the frame of type testing.

NOTE 3 In general, type testing on large equipment is only possible at standardized test sites in a controlled environment. The assessment results obtained under in situ conditions are only valid for the respective individual large equipment actually measured at its particular place of installation. These results cannot be transposed to other equipment of the same type, but installed at other locations.

Reference in-situ measurement distances will be given. This allows comparison of the measurement results with limits from existing relevant standards.

The frequency range under consideration is from 9 kHz to 18 GHz.

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

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 16-1-1, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-1: Radio disturbance and immunity measuring apparatus – Measuring apparatus*

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