

Australian/New Zealand Standard™

**Specification for radio disturbance and
immunity measuring apparatus and
methods**

**Part 1: Radio disturbance and immunity
measuring apparatus**

AS/NZS CISPR 16.1:2002

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 23 August 2002 and on behalf of the Council of Standards New Zealand on 20 August 2002. It was published on 18 September 2002.

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Australian/New Zealand Standard™

Specification for radio disturbance and immunity measuring apparatus and methods

Part 1: Radio disturbance and immunity measuring apparatus

Originated in Australia in part as AS C348.1—1962 and AS C348.2—1962.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Interference, to supersede AS/NZS 1052.1:1995, *Specification for radio disturbance and immunity measuring apparatus and methods—Radio disturbance and immunity measuring apparatus*.

The objective of this Standard is to specify characteristics and performance of equipment relating to the measurement of radio disturbance voltages, currents and fields in the frequency range 9 kHz to 18 GHz. Requirements for specialized equipment for discontinuous disturbance measurements and the measurement requirements of broadband and narrowband types of radio disturbance are included.

This Standard is identical with and has been reproduced from CISPR 16-1:1999-10, *Specification for radio disturbance and immunity measuring apparatus and methods, Part 1: Radio disturbance and immunity measuring apparatus*.

This Standard should be read in conjunction with AS/NZS CISPR 16.2.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a Standard, whereas an ‘informative’ annex is only for information and guidance.

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Australian/New Zealand Standard**Specification for radio disturbance and immunity measuring apparatus and methods****Part 1: Radio disturbance and immunity measuring apparatus**

1 Scope

This part of CISPR 16 is designated a basic standard, which specifies the characteristics and performance of equipment for the measurement of radio disturbance voltages, currents and fields in the frequency range 9 kHz to 18 GHz. In addition, requirements are specified for specialized equipment for discontinuous disturbance measurements. The requirements include the measurement of broadband and narrowband types of radio disturbance.

The receiver types covered include the following:

- a) the quasi-peak measuring receiver,
- b) the peak measuring receiver,
- c) the average measuring receiver,
- d) the r.m.s. measuring receiver.

In addition there are specifications for spectrum analyzers, scanning receivers and audio-frequency voltmeters. Specifications for ancillary apparatus are included for: artificial mains networks, current and voltage probes, absorbing clamp, antenna and test site, coupling units for current injection on cables, TEM cells, and reverberating chamber.

The requirements of this publication shall be complied with at all frequencies and for all levels of radio disturbance voltages, currents, power or field strengths within the CISPR indicating range of the measuring equipment.

Methods of measurement are covered in Part 2, and further information on radio disturbance is given in Part 3 of CISPR 16.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of CISPR 16. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of CISPR 16 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

CISPR 16-2:1996, *Specification for radio disturbance and immunity measuring apparatus and methods – Part 2: Methods of measurement of immunity and disturbance*

CISPR 16-3: *Specification for radio disturbance and Immunity measuring apparatus and methods – Part 3 (under consideration)*