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CISPR 14-1, Ed.5.1 (2009)

AS/NZS CISPR 14.1:2010

Australian/New Zealand Standard™

Electromagnetic Compatibility—Requirements for household appliances, electrical tools and similar apparatus

Part 1: Emission

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 4 February 2010 and on behalf of the Council of Standards New Zealand on 8 February 2010.
This Standard was published on 3 March 2010.

The following are represented on Committee TE-003:

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Part 1: Emission

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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 CISPR 14.1:2003, as one of a series of Standards intended to facilitate control of electromagnetic interference and the compatibility of electrical and electronic equipment.

The objective of this Standard is to establish uniform requirements for the electromagnetic immunity of information technology equipment.

This Standard is identical with, and has been reproduced from CISPR 14-1, Ed. 5.1 (2009), *Electromagnetic Compatibility—Requirements for household appliances, electrical tools and similar apparatus, Part 1: Emission.*

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 CISPR 14-1’ 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’ are used to define the application of the Annex to which it applies. A normative annex is an integral part of a Standard, whereas an informative Annex is only for information and guidance.

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INTRODUCTION

The intention of this standard is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Electromagnetic Compatibility—Requirements for household appliances, electrical tools and similar apparatus Part 1: Emission

1 Scope

1.1 This standard applies to the conduction and the radiation of radio-frequency disturbances from appliances whose main functions are performed by motors and switching or regulating devices, unless the r.f. energy is intentionally generated or intended for illumination.

It includes such equipment as: household electrical appliances, electric tools, regulating controls using semiconductor devices, motor-driven electro-medical apparatus, electric/ electronic toys, automatic dispensing machines as well as cine or slide projectors. Both mains powered appliances and battery powered appliances are included.

Also included in the scope of this standard are:

– separate parts of the above mentioned equipment such as motors, switching devices e.g. (power or protective) relays, however no emission requirements apply unless formulated in this standard.

Excluded from the scope of this standard are:

– apparatus for which all emission requirements in the radio frequency range are explicitly formulated in other IEC or CISPR standards;

NOTE 1 Examples are:

  – luminaires, including portable luminaires for children, discharge lamps and other lighting devices: CISPR 15;
  – audio and video equipment and electronic music instruments, other than toys: CISPR 13 and CISPR 20 (see also 7.3.5.4.2);
  – mains communication devices, as well as baby surveillance systems: IEC 61000-3-8;
  – equipment for generation and use of radio frequency energy for heating and therapeutic purposes: CISPR 11;
  – microwave ovens: CISPR 11 (but be aware of 1.3 on multifunction equipment);
  – information technology equipment, e.g. home computers, personal computers, electronic copying machines: CISPR 22;
  – electronic equipment to be used on motor vehicles: CISPR 12;
  – radio controls, walkie-talkies and other types of radio-transmitters, also when used with toys;
  – arc welding equipment: CISPR 11.

– regulating controls and equipment with regulating controls incorporating semiconductor devices with a rated input current of more than 25 A per phase;

– stand-alone power supplies.

NOTE 2 Toys powered by the supply system of a motor-powered vehicle, ship or aircraft are not covered by this standard.

1.2 The frequency range covered is 9 kHz to 400 GHz.