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AS/NZS CISPR 14.2:2021

Australian/New Zealand Standard™

Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus

Part 2: Immunity — Product family standard (CISPR 14-2:2020 (ED 3.0) MOD)

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Australian Broadcasting Corporation
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Australian Industry Group
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EMC Society of Australia
Energy Networks Australia
Engineers Australia
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE-003, Electromagnetic Compatibility, to supersede AS CISPR 14.2:2015, *Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus, Part 2: Immunity—Product family standard*.

The objective of this document is to specify the electromagnetic immunity requirements in the frequency range 0 Hz to 400 GHz that apply to appliances, electric tools and similar apparatus as specified below, whether powered by AC or DC (including a battery).

This document specifies immunity requirements for continuous and transient electromagnetic disturbances, both conducted and radiated.

Unless otherwise specified, this document is applicable to all equipment in the scope of AS/NZS CISPR 14.1, namely —

(a) household appliances or similar apparatus;

NOTE 1 Examples are equipment used —

(a) for typical housekeeping functions in the household environment, which includes the dwelling and its associated buildings, the garden, etc.;

(b) for typical housekeeping functions in shops, offices, commercial and other similar working environments;

(c) on farms;

(d) by clients in hotels and other residential type environments; and

(e) for induction cooking or air conditioning, either in residential or commercial environments.

(b) electric tools; and

NOTE 2 Examples of electric tools include electric motor-operated or electromagnetically driven hand-held tools, transportable tools, lawn and garden machinery.

(c) similar apparatus.

NOTE 3 Examples are —

(a) external power controllers using semiconductor devices;

(b) motor-driven electro-medical equipment;

(c) electric/electronic toys;

(d) personal care and beauty care appliances;

(e) automatic goods-dispensing machines;

(f) entertainment machines;

(g) cine or slide projectors;

(h) battery chargers and external power supplies for use with products under the scope of this document; and

(i) electric fence energisers.

Included in the scope of this document are also microwave ovens for domestic use or catering.

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Equipment which incorporate radio-transmit/receive functions are included in the scope of this document.

NOTE 4 For handling cases where equipment under the scope of this document is combined with transmit and/or receive radio functions, see Clause 8.

Excluded from the scope of this document are —

(i) equipment for which all electromagnetic immunity requirements are explicitly formulated in other CISPR or IEC standards;

NOTE 5 Examples are —

(a) luminaires, including portable luminaires for children, discharge lamps, LED lamps and other lighting devices under the scope of IEC 61547;

(b) multimedia equipment under the scope of CISPR 35;

(c) mains communication devices, as well as baby surveillance systems;

(d) arc welding equipment.

(ii) equipment intended to be part of the fixed electrical installation of buildings (e.g. fuses, circuit breakers, cables and switches);

(iii) medical electrical equipment, including those in the scope of AS/NZS CISPR 14.1;

(iv) equipment used only in industrial environment;

(v) equipment intended to be used exclusively in locations where special electromagnetic conditions exist (e.g. high electromagnetic fields nearby broadcast transmitting stations or high energy pulses nearby power generation stations);

(vi) equipment intended to be used exclusively on a vehicle, ship, boat or aircraft; and

(vii) the effects of electromagnetic phenomena relating to the safety of apparatus (see AS/NZS IEC 60335 series);

Also excluded from the scope of this document is AC single-phase equipment with a rated voltage higher than 250 V between phase and neutral and AC multi-phase equipment with rated voltage higher than 480 V. Abnormal operation of the equipment, such as simulated faults in the electric circuitry for testing purposes, is not taken into consideration.

This document is an adoption with national modifications, and has been reproduced from, CISPR 14-2:2020 (Ed. 3.0), *Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2: Immunity — Product family standard.* The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to CISPR 14-2:2020, for the application of this document in Australia and New Zealand.

As this document has been reproduced from an International Standard the following applies:

(A) In the source text "this part of CISPR 14" should read "this document".

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

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms "normative" and "informative" are used in Standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

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