

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

Part 2: Immunity — Product family standard

ICS 25.140.20; 33.100.20; 97.030

National foreword

This British Standard is the UK implementation of EN 55014-2:1997+A2:2008, incorporating corrigendum December 1997. It is identical to CISPR 14-2:1997, incorporating amendments 1:2001 and 2:2008. It supersedes BS EN 55014-2:1997+A1:2001 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **A1** **A1**.

The UK participation in its preparation was entrusted by Technical Committee GEL/210, Electromagnetic compatibility, to Subcommittee GEL/210/6, Equipment, lighting fittings and domestic appliances.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

The text of CENELEC Interpretation Sheet 1 (April 2007) in relation to Clause 8, Conditions during testing, is included in National Annex NA.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
9962	April 1998	Implementation of CENELEC corrigendum December 1997
13662	18 September 2002	See national foreword
17197	31 July 2007	Addition of National Annex NA to include CENELEC Interpretation Sheet 1, April 2007
	30 April 2009	Implementation of CISPR amendment 2:2008 with CENELEC endorsement A2:2008
	30 November 2011	Correction to amendment A2 text in 5.6, Table 12

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**Electromagnetic compatibility -
Requirements for household appliances,
electric tools and similar apparatus -
Part 2: Immunity -
Product family standard
(CISPR 14-2:1997)**

Compatibilité électromagnétique -
Exigences pour les appareils
électrodomestiques, outillages électriques
et appareils analogues -
Partie 2: Immunité -
Norme de famille de produits
(CISPR 14-2:1997)

Elektromagnetische Verträglichkeit -
Anforderungen an Haushaltgeräte,
Elektrowerkzeuge und ähnliche
Elektrogeräte -
Teil 2: Störfestigkeit -
Produktfamiliennorm
(CISPR 14-2:1997)

This European Standard was approved by CENELEC on 1996-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document CISPR/F/201/FDIS, future edition 1 of CISPR 14-2, prepared by CISPR SC F, Interference relating to household appliances, tools, lighting equipment and similar apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 55014-2 on 1996-10-01.

This European Standard supersedes EN 55104:1995.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-01-01

Annexes designated “normative” are part of the body of the standard.

In this standard, Annex ZA is normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard CISPR 14-2:1997 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of document CISPR/F/333/FDIS, future amendment 1 to CISPR 14-2:1997, prepared by CISPR SC F, Interference relating to household appliances, tools, lighting equipment and similar apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 55014-2:1997 on 2001-12-01.

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- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2004-12-01

Annexes designated “normative” are part of the body of the standard.

In this standard, Annex ZA is normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 1:2001 to the International Standard CISPR 14-2:1997 was approved by CENELEC as an amendment to the European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61558-2-7 NOTE Harmonized as EN 61558-2-7:1997 (modified).

Foreword to amendment A2

The text of document CISPR/F/454/CDV, future amendment 2 to CISPR 14-2:1997, prepared by CISPR SC F, Interference relating to household appliances, tools, lighting equipment and similar apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 55014-2:1997 on 2008 09 01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009 06 01
- latest date by which the national standards conflicting with the amendment have to be withdrawn or by endorsement (dow) 2011 09 01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 2:2008 to the International Standard CISPR 14-2:1997 was approved by CENELEC as an amendment to the European Standard without any modification.

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Introduction

The intention of this standard is to establish uniform requirements for the electromagnetic immunity of the equipment mentioned in the scope, to fix test specifications of immunity, to refer to basic standards for methods of testing, and to standardize operating conditions, performance criteria and interpretation of results.

Keywords: Immunity, household appliances, electric apparatus, electromagnetic compatibility.

A₂ 1 Scope **A₂**

1.1 This standard deals with the electromagnetic immunity of appliances and similar apparatus for household and similar purposes that use electricity, as well as electric toys and electric tools, the rated voltage of the apparatus being not more than 250 V for single-phase apparatus to be connected to phase and neutral, and 480 V for other apparatus.

Apparatus may incorporate motors, heating elements or their combination, may contain electric or electronic circuitry, and may be powered by the mains, **A₁** by transformer **A₁**, by batteries, or by any other electrical power source.

Apparatus not intended for household use, but which nevertheless may require the immunity level, such as apparatus intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard, as far as they are included in **A₂** CISPR 14-1 **A₂**, and in addition:

- microwave ovens for domestic use and catering;
- cooking hobs and cooking ovens, heated by means of r.f. energy, (single- and multiple-zone) induction cooking appliances;
- A₁** — appliances for personal care equipped with radiators in the range from UV to IR, inclusive (this includes visible light). **A₁**

1.2 This standard does not apply to:

- equipment for lighting purposes;
- apparatus designed exclusively for heavy industrial purposes;
- apparatus intended to be part of the fixed electrical installation of buildings (such as fuses, circuit breakers, cables and switches);
- apparatus intended to be used in locations where special electromagnetic conditions prevail, such as the presence of high e.m. fields (for example in the vicinity of a broadcast transmitting station), or where high pulses occur on the power network (such as in a power generator station);
- radio and television receivers, audio and video equipment, and electronic music instruments **A₁** other than toys **A₁**;
- medical electrical appliances;
- personal computers and similar equipment **A₁** other than toys **A₁**;
- radio transmitters;
- apparatus designed to be used exclusively in vehicles;
- A₁** — babies surveillance systems. **A₁**

1.3 Immunity requirements in the frequency range 0 Hz to 400 GHz are covered.

1.4 The effects of electromagnetic phenomena relating to the safety of apparatus are excluded from this standard and are covered by other standards, for example IEC 335.

Abnormal operation of the apparatus (such as simulated faults in the electric circuitry for testing purposes) is not taken into consideration.

NOTE Attention is drawn to the fact that additional requirements may be necessary for apparatus intended to be used on board ships or aircraft.