

Electromagnetic compatibility — Generic immunity standard

Part 1. Residential, commercial and light industry

The European Standard EN 50082-1 : 1997 has the status of a
British Standard

ICS 33.100

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National foreword

This British Standard is the English language version of EN 50082-1 : 1997 published by the European Committee for Electrotechnical Standardization (CENELEC). It supersedes BS EN 50082-1 : 1992 which will be withdrawn on 2001-07-01.

The UK participation in its preparation was entrusted to Technical Committee GEL/210, Electromagnetic compatibility, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

This standard is one of a number of standards which should be consulted by any manufacturer intending to make an EC declaration of conformity of apparatus with Directive 89/336/EEC.

Attention is drawn to Article 10 of Directive 89/336/EEC which covers making an EC declaration of conformity and Article 9 which covers non-compliance.

The following guidance is given to manufacturers intending to make an EC declaration of conformity of apparatus with Directive 89/336/EEC.

1. Where a declaration of conformity is to be based on standards which have been listed in the Official Journal of the European Communities, as described in Article 10 (1) of Directive 89/33/EEC, a manufacturer should apply all the relevant product or product-family standards.
2. Where it is found that the apparatus does not fall within the scopes of any of the product-family or product standards listed, the relevant generic standard should be applied.
3. Where, for whatever reason, a manufacturer chooses not to apply the standards listed or to apply them only in part, the technical construction file, as described in Article 10 (2) of Directive 89/336/EEC, should be used.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled 'International Standards Correspondence Index', or by using the 'Find' facility of the BSI Standards Electronic Catalogue.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 10, an inside back cover and a back cover.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 January 1998

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Amendments issued since publication

Amd. No.	Date	Text affected

ICS 33.100

Descriptors: Radio disturbances, electromagnetic compatibility, tests, equipment protection

English version

Electromagnetic compatibility — Generic immunity standard Part 1: Residential, commercial and light industry

Compatibilité électromagnétique — Norme générique
immunité

Partie 1: Résidentiel, commercial et industrie légère

Elektromagnetische Verträglichkeit (EMV) —
Fachgrundnorm Störfestigkeit Teil 1: Wohnbereich,
Geschäfts- und Gewerbebereiche sowie
Kleinbetriebe

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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 European Standard 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.

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CENELEC

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

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Foreword

This European Standard was prepared by Technical Committee CENELEC TC 210, EMC.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50082-1 on 1997-03-11.

This European Standard supersedes EN 50082-1 : 1992 and its corrigendum February 1992.

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) 1998-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-07-01

1 Scope

This standard for EMC immunity requirements applies to electrical and electronic apparatus intended for use in the residential, commercial and light-industrial environment, as described in clause 5, for which no dedicated product or product-family immunity standard exists.

Where a relevant dedicated product or product-family EMC immunity standard exists (EN or ETS), it shall take precedence over all aspects of this generic standard.

Immunity requirements in the frequency range 0 Hz to 400 GHz are covered. No measurements need to be performed at frequencies where no requirements are specified.

This standard applies to apparatus intended to be directly connected to a public low-voltage mains network or connected to a dedicated DC source which is intended to interface between the apparatus and the low-voltage public mains network. This standard applies also to apparatus which is battery operated or is powered by a non-public but non-industrial low-voltage power distribution system if this apparatus is intended to be used in the locations described in clause 5.

Apparatus intended to be connected to an industrial power network and apparatus intended to be operated in an industrial environment as described in EN 50082-2 are covered by that generic standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Title	EN/HD
IEC 50(161)	<i>International Electrotechnical Vocabulary — Chapter 161: Electromagnetic compatibility</i>	—
IEC 1000-4-2	<i>Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 2: Electrostatic discharge immunity test</i>	EN 61000-4-2
IEC 1000-4-3 (mod)	<i>Section 3: Radiated, radio-frequency electromagnetic field, immunity test</i>	EN 61000-4-3
IEC 1000-4-4	<i>Section 4: Electrical fast transient/burst immunity test</i>	EN 61000-4-4
IEC 1000-4-5	<i>Section 5: Surge immunity test</i>	EN 61000-4-5
IEC 1000-4-6	<i>Section 6: Conducted disturbances induced by radio-frequency fields — Immunity test</i>	EN 61000-4-6
IEC 1000-4-8	<i>Section 8: Power-frequency magnetic field immunity test</i>	EN 61000-4-8
IEC 1000-4-11	<i>Section 11: Voltage dips, short interruptions and voltage variations immunity test</i>	EN 61000-4-11
CISPR 22	<i>Limits and methods of measurement of radio interference characteristics of information technology equipment</i>	EN 55022
—	<i>Radiated electromagnetic field from digital radio telephones — Immunity test</i>	ENV 50204 : 1995