

Electromagnetic compatibility (EMC) —

Part 2: Environment —

Section 4: Compatibility levels in industrial plants for low-frequency conducted disturbances

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee GEL/110, Electromagnetic compatibility, to Subcommittee GEL/110/8, Electromagnetic compatibility — Low frequency disturbances, upon which the following bodies were represented:

- Association of Control Manufacturers [TACMA (BEAMA Ltd.)]
- Association of Manufacturers of Domestic Electrical Appliances
BEAMA Ltd.
- British Lighting Association for the Preparation of Standards (BRITLAPS)
- British Radio and Electronic Equipment Manufacturers' Association
- British Telecommunications plc
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- ERA Technology Ltd.
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- Heating, Ventilating and Air Conditioning Association
- Institution of Electrical Engineers
- Lighting Industry Federation Ltd.
- Power Supply Manufacturers' Association [PSMA (BEAMA Ltd.)]
- Professional Lighting and Sound Association
- Radiocommunications Agency
- Sound and Communications Industries Federation

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 July 1995

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National foreword

This British Standard has been prepared by Technical Committee GEL/110/Subcommittee GEL/110/8 and is the English language version of EN 61000-2-4:1994 *Electromagnetic compatibility (EMC) — Part 2: Environment — Section 4: Compatibility levels in industrial plants for low-frequency conducted disturbances*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 1000-2-4:1994 and its corrigendum 1994 published by the International Electrotechnical Commission (IEC).

IEC 1000 has been designated a basic EMC publication for use in the preparation of dedicated product, product family and generic EMC standards.

IEC 1000 is published in separate Parts in accordance with the following structure.

- *Part 1: General — General considerations (introduction, fundamental principles);*
- *Part 2: Environment — Description of the environment — Classification of the environment — Compatibility levels;*
- *Part 3: Limits — Emission limits — Immunity limits (in so far as they do not fall under the responsibility of the product committees);*
- *Part 4: Testing and measurement techniques — Measurement techniques — Testing techniques;*
- *Part 5: Installation and mitigation guidelines — Installation guidelines — Mitigation methods and devices;*
- *Part 9: Miscellaneous.*

Each Part is subdivided into Sections each of which may be published as either a standard or a Technical Report.

Cross-references

Publication referred to	Corresponding British Standard
IEC 50 (161):1990	BS 4727 <i>Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms</i> Part 1. <i>Terms common to power telecommunications and electronics</i> Group 09:1991 <i>Electromagnetic compatibility</i>
ENV 61000-2-2:1993	DD ENV 61000-2-2 <i>Electromagnetic compatibility (EMC)</i> Part 2. <i>Environment</i> Section 2:1993 <i>Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 14, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

ICS 29.020

Descriptors: Electric power supply, electric power networks, low voltage, network disturbances, electromagnetic compatibility, industrial electrical installations, classification

English version

Electromagnetic compatibility (EMC)
Part 2: Environment
Section 4: Compatibility levels in industrial plants for
low-frequency conducted disturbances

(IEC 1000-2-4:1994 + corrigendum 1994)

Compatibilité électromagnétique (EMC)
Partie 2: Environnement
Section 4: Niveaux de compatibilité dans les
installations industrielles pour les
perturbations conduites à basse fréquence
(CEI 1000-2-4:1994 + corrigendum 1994)

Elektromagnetische Verträglichkeit
Teil 2: Umgebungsbedingungen
Hauptabschnitt 4: Verträglichkeitspegel für
niederfrequente leitungsgeführte Störgrößen in
Industrieanlagen
(IEC 1000-2-4 1994 + Corrigendum 1994)

This European Standard was approved by CENELEC on 1994-07-05. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 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 Elektrotechnische Normung

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

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Foreword

The text of document 77B(CO) 16A, future edition 1 of IEC 1000-2-4, prepared by SC 77B, High-frequency phenomena, of IEC TC 77, electromagnetic compatibility, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61000-2-4 on 1994-07-05.

NOTE Finland and Switzerland have no obligation to implement this European Standard.

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) 1995-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-07-01

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. In this standard, Annex ZA is normative and Annex A informative. Annex ZA has been added by CENELEC.

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