

Electromagnetic compatibility — Generic immunity standard —

Part 2: Industrial environment

The European Standard EN 50082-2:1995 has the status of a British Standard

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GEL/110, Electromagnetic compatibility, upon which the following bodies were represented:

- Association of Control Manufacturers (TACMA (BEAMA Ltd.))
- Association of Manufacturers of Domestic Electrical Appliances
- Automated Material Handling Systems Association
- BEAMA Interactive and Mains Systems Association (BIMSA)
- BEAMA Ltd.
- British Lighting Association for the Preparation of Standards (Britlaps)
- British Radio and Electronic Equipment Manufacturers' Association
- British Telecommunications plc
- Department of Health
- Department of Trade and Industry
- Department of Transport
- EEA (The Association of Electronics, Telecommunications and Business Equipment Industries)
- ERA Technology Ltd.
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Electricity Industry in United Kingdom
- Electronic Components Industry Federation
- GAMBICA (BEAMA Ltd.)
- Health and Safety Executive
- Induction and Dielectric Heating Manufacturers' Association
- Institution of Electrical Engineers
- Lighting Industry Federation Ltd.
- Ministry of Defence
- National Air Traffic Services
- National Transcommunications Ltd.
- Radiocommunications Agency
- Rotating Electrical Machines Association (BEAMA Ltd.)
- Society of British Gas Industries
- Society of Motor Manufacturers and Traders Ltd.
- Sound and Communication Industries Federation
- Transmission and Distribution Association (BEAMA Ltd.)

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 September 1995

© BSI 10-1998

The following BSI references relate to the work on this standard:
Committee reference GEL/110
Draft for comment 91/21828 DC

ISBN 0 580 24768 6

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
Text of EN 50082-2	3
List of references	Inside back cover

National foreword

This British Standard has been prepared by Technical Committee GEL/110 and is the English language version of EN 50082-2:1995 *Electromagnetic compatibility — Generic immunity standard Part 2: Industrial environment*, published by the European Committee for Electrotechnical Standardization (CENELEC).

This standard is one of a number of generic standards related to European Council Directive 89/336/EEC, dated 3 May 1989 (referred to as the Electromagnetic Compatibility (EMC) Directive) which applies to apparatus (equipment) liable to cause electromagnetic disturbance or the performance of which is liable to be affected by such disturbance. It defines the protection requirements, and related conformity procedures. The protection requirements state that apparatus within the scope of the Directive are to be so constructed that:

- a) the electromagnetic disturbance it generates does not exceed a level allowing radio and telecommunications equipment and other apparatus to operate as intended;
- b) the apparatus has an adequate level of intrinsic immunity to electromagnetic disturbance to enable it to operate as intended.

Member States of the EC are required to presume compliance with the protection requirements where apparatus is in conformity with the relevant national standards implementing the harmonized standards.

Attention is drawn to Article 10 of the EMC Directive which covers such matters as declarations of conformity and EC marks.

The following guidance is given to manufacturers intending to make a declaration of conformity with the protection requirements of Directive 89/336/EEC.

- 1) Where a declaration of conformity is to be based exclusively on standards, a manufacturer should apply all of the standards which have been listed in the *Official Journal of the European Communities* where the scopes of those standards are appropriate to the product.
- 2) Where the scopes of the product-family or product standards listed are not appropriate to a particular product, the generic standards should be applied.
- 3) Where, for whatever reason, a manufacturer chooses not to apply the standards or to apply them only in part, the technical construction file route, as described in Article 10(2) of Directive 89/336/EEC, can be followed in order to make a declaration of conformity.

For information on the basic standards listed in annex A write to Customer Services, BSI, 389 Chiswick High Road, London W4 4AL.

Cross-references

Publication referred to

IEC 50 (161):1990

Corresponding British Standard

BS 4727 *Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms*Part 1 *Terms common to power, telecommunications and electronics*Group 09:1991 *Electromagnetic compatibility*BS EN 61000 *Electromagnetic compatibility (EMC)*Part 4 *Testing and measurement techniques*EN 61000-4-2:1995
(IEC 1000-4-2:1995)Section 2:1995¹⁾ *Electrostatic discharge immunity test*EN 61000-4-4:1995
(IEC 1000-4-4:1995)Section 4:1995¹⁾ *Electrical fast transient/burst immunity test*EN 61000-4-5:1995
(IEC 1000-4-5:1995)Section 5:1995¹⁾ *Surge immunity test*EN 61000-4-8:1993
(IEC 1000-4-8:1993)Section 8:1994 *Power frequency magnetic field immunity test*EN 61000-4-11:1994
(IEC 1000-4-11:1994)Section 11:1994 *Voltage dips, short interruptions and voltage variations immunity tests*EN 55011:1991
(CISPR 11:1990)BS EN 55011:1991 *Specification for limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment*EN 55022:1987
(CISPR 22:1985)BS 6527:1988 *Specification for limits and methods of measurement of radio interference characteristics of information technology equipment*

ENV 50140:1993

DD ENV 50140:1994 *Electromagnetic compatibility — Basic immunity standard — Radiated radio-frequency electromagnetic field — Immunity test*

ENV 50141:1993

DD ENV 50141:1994 *Electromagnetic compatibility — Basic immunity standard — Conducted disturbances induced by radio-frequency fields — Immunity test*

ENV 50204:1995

DD ENV 50204:1995¹⁾ *Radiated electromagnetic field from digital radio telephones — Immunity test*

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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, pages i to iv, the EN title page, pages 2 to 12, 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.

¹⁾ In preparation.

