

Electromagnetic compatibility — Generic immunity standard —

Part 1: Residential, commercial and light industry

The European Standard EN 50082-1:1992 has the status of a
British Standard

Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the national committees of the following countries.

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

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National foreword

This British Standard has been prepared under the direction of the General Electrotechnical Standards Policy Committee and is the English language version of EN 50082-1, “Electromagnetic compatibility — Generic immunity standard. Part 1: Residential, commercial and light industry”, 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 standard implementing the harmonized standard (in this case EN 50082-1).

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, but see also footnote a to the table on page iii.
- 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.

Types of Product ^a	Standards which should be applied to make a declaration of conformity			
	Emission			Immunity
	Harmonics	Voltage fluctuations	Radio-interference	All aspects
Household appliances and portable tools, e.g. vacuum cleaners, washing machines, heating and cooking appliances; dimmers	BS 5406-2 (EN 60555-2)	BS 5406-3 (EN 60555-3)	BS 800 (EN 55014)	BS EN 50082-1 ^b
Luminaires with discharge lamps	BS 5406-2 (EN 60555-2)		BS 5394 (EN 55015)	BS EN 50082-1 ^b
TV receivers	BS 5406-2 ^c (EN 60555-2)		BS 905-1 (EN 55013)	BS 905-2 (EN 55020)
Information Technology (IT) equipment	BS 5406-2 ^c (EN 60555-2)		BS 6527 (EN 55022)	EN 55101 all Parts ^d
Mains signalling equipment			BS EN 50065-1	BS EN 50082-1
Industrial, Scientific and Medical (ISM) equipment designed to generate radio frequency energy			BS EN 55011	EN 50082-2 ^d
Industrial electronic power and control equipment			EN 50081-2 ^d	EN 50082-2 ^d
Industrial non-electronic equipment			EN 50081-2 ^d if producing radio frequency interference	
^a Manufacturers are advised to consult both the scope and definitions contained in a particular standard for further guidance in determining what individual items of equipment may be covered. The scopes of BS EN 55011, BS 905-1, BS 800 and BS 6527 are in general mutually exclusive, but it should be noted that equipment designed to generate radio frequency energy may be covered by the scope of more than one standard and the requirements of both standards should be applied, e.g. a domestic microwave oven is covered by the scope of both BS 800 and BS EN 55011. ^b Only applies to equipment containing electronic circuits. ^c Applicability is limited to equipment which is intended for household use. ^d In preparation. NOTE Where no requirements covering a particular phenomenon are specified the equipment should be designed to meet the supply authority requirements.				

The examples of typical equipment given in the table on page iii, which is not exhaustive, show which standards should be applied if it is intended to make a declaration of conformity which is based exclusively on standards.