



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61326-1:2006

ICS 25.040.40
33.100

**ELECTRICAL EQUIPMENT FOR
MEASUREMENT, CONTROL AND
LABORATORY USE - EMC REQUIREMENTS
-- PART 1: GENERAL REQUIREMENTS**

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EUROPEAN STANDARD
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EN 61326-1

May 2006

ICS 25.040.40; 33.100

Supersedes EN 61326:1997 + A1:1998 + A2:2001 + A3:2003

English version

**Electrical equipment for measurement,
control and laboratory use –
EMC requirements
Part 1: General requirements
(IEC 61326-1:2005)**

Matériel électrique de mesure,
de commande et de laboratoire –
Exigences relatives à la CEM
Partie 1: Exigences générales
(CEI 61326-1:2005)

Elektrische Mess-, Steuer-, Regel-
und Laborgeräte –
EMV-Anforderungen
Teil 1: Allgemeine Anforderungen
(IEC 61326-1:2005)

This European Standard was approved by CENELEC on 2006-02-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, 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 65A/456/FDIS, future edition 1 of IEC 61326-1, prepared by SC 65A, System aspects, of IEC TC 65, Industrial-process measurement and control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61326-1 on 2006-02-01.

The EN 61326 series supersedes EN 61326:1997 + corrigendum September 1998 + A1:1998 + A2:2001 + A3:2003.

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) 2006-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-02-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 89/336/EEC. See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61326-1:2005 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

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|------------------|--|
| IEC 60359 | NOTE Harmonized as EN 60359:2002 (not modified). |
| IEC 61010 series | NOTE Harmonized in the EN 61010 series (not modified). |
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-161	– ¹⁾	International Electrotechnical Vocabulary Chapter 161: Electromagnetic compatibility	–	–
IEC 61000-3-2 (mod)	2000	Electromagnetic compatibility (EMC) Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16A per phase)	EN 61000-3-2 ²⁾	2000
IEC 61000-3-3 A1	1994 2001	Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	EN 61000-3-3 A1	1995 2001
IEC 61000-3-11	2000	Part 3-11: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75A and subject to conditional connection	EN 61000-3-11	2000
IEC 61000-3-12	2004	Part 3-12: Limits – Limits for harmonic currents produced by equipment connected to public low voltage systems with input current > 16A and ≤ 75A per phase	EN 61000-3-12	2005
IEC 61000-4-2 A1 A2	1995 1998 2000	Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	EN 61000-4-2 A1 A2	1995 1998 2001
IEC 61000-4-3	2002	Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2002
IEC 61000-4-4	2004	Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test	EN 61000-4-4	2004
IEC 61000-4-5 A1	1995 2000	Part 4-5: Testing and measurement techniques – Surge immunity test	EN 61000-4-5 A1	1995 2001

¹⁾ Undated reference.

²⁾ EN 61000-3-2 is superseded by EN 61000-3-2:2006, which is based on IEC 61000-3-2:2005.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-6	2003	Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	– ³⁾	–
IEC 61000-4-8 A1	1993 2000	Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test	EN 61000-4-8 A1	1993 2001
IEC 61000-4-11	2004	Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	2004
IEC 61000-6-1	2005	Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	– ⁴⁾	–
CISPR 11	2003	Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement	– ⁵⁾	–

³⁾ IEC 61000-4-6:1996 + A1:2000 are harmonized as EN 61000-4-6:1996 + A1:2001.

⁴⁾ IEC 61000-6-1 (mod.) is harmonized as EN 61000-6-1:2001.

⁵⁾ CISPR 11:1997 (mod.) + A1:1999 + A2:2002 are harmonized as EN 55011:1997 + A1:1999 + A2:2002.

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