



SLOVENSKI STANDARD

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01-september-2008

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SIST EN 61326:1998

SIST EN 61326:1998/A1:1998

SIST EN 61326:1998/A2:2002

SIST EN 61326:1998/A3:2004

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YY_fca U[bYfbc`nXfi`y`!j cghf0 A7L!`!&`XY`NU hYj Y`nUcXdcfbcghj Ufbcghb]`
g]ghYa cj`j b`nUcdfYa cZbUa YbYbc nUcdfUj`UbY`n`j Ufbcghc`dcj YnUb]`Z b`W^
fZ b`W^g_Uj UfbcghL!`bXi gff]`g_Uj dcfUVUj`bUj YXYb]`YY_fca U[bYfb]`c_c`^
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SIST EN 61326-3-2:2008

Electrical equipment for measurement, control and laboratory use - EMC requirements -
Part 3-2: Immunity requirements for safety-related systems and for equipment intended
to perform safety-related functions (functional safety) - Industrial applications with
specified electromagnetic environment

Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 3-2:
Störfestigkeitsanforderungen für sicherheitsbezogene Systeme und für Geräte, die für
sicherheitsbezogene Funktionen vorgesehen sind (Funktionale Sicherheit) - Industrielle
Anwendungen in spezifizierter elektromagnetischer Umgebung

Matériel électrique de mesure, de commande et de laboratoire - Exigences relatives à la
CEM - Partie 3-2: Exigences d'immunité pour les systèmes relatifs à la sécurité et aux
matériels destinés à réaliser des fonctions relatives à la sécurité (sécurité fonctionnelle) -
Applications industrielles dont l'environnement électromagnétique est spécifié

Ta slovenski standard je istoveten z: EN 61326-3-2:2008

SIST EN 61326-3-2:2008

en,fr,de

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61326-3-2

June 2008

ICS 25.040.40; 33.100.20

Partially supersedes EN 61326:1997 + A1:1998 + A2:2002 + A3:2003

English version

**Electrical equipment for measurement, control and laboratory use -
EMC requirements -
Part 3-2: Immunity requirements for safety-related systems
and for equipment intended to perform safety-related functions
(functional safety) -
Industrial applications with specified electromagnetic environment
(IEC 61326-3-2:2008)**

Matériel électrique de mesure,
de commande et de laboratoire -
Exigences relatives à la CEM -
Partie 3-2: Exigences d'immunité
pour les systèmes relatifs à la sécurité
et aux matériels destinés à réaliser des
fonctions relatives à la sécurité
(sécurité fonctionnelle) -
Applications industrielles
dont l'environnement électromagnétique
est spécifié
(CEI 61326-3-2:2008)

Elektrische Mess-, Steuer-,
Regel- und Laborgeräte -
EMV-Anforderungen -
Teil 3-2: Störfestigkeitsanforderungen
für sicherheitsbezogene Systeme und
für Geräte, die für sicherheitsbezogene
Funktionen vorgesehen sind
(Funktionale Sicherheit) -
Industrielle Anwendungen in spezifizierter
elektromagnetischer Umgebung
(IEC 61326-3-2:2008)

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This European Standard was approved by CENELEC on 2008-06-01. 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.

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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

Foreword

The text of document 65A/501/FDIS, future edition 1 of IEC 61326-3-2, prepared by SC 65A, System aspects, of IEC TC 65, Industrial-process measurement, control and automation, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61326-3-2 on 2008-06-01.

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

This standard is to be used in conjunction with EN 61326-1.

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) 2009-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-06-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61326-3-2:2008 was approved by CENELEC as a European Standard without any modification.

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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 When 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 (IEV) - Chapter 161: Electromagnetic compatibility	-	-
IEC 61000-4-2 A1 A2	1995 1998 2000	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2 A1 A2	1995 1998 2001
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2006
IEC 61000-4-4	2004	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2004
IEC 61000-4-5	2005	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	2006
IEC 61000-4-6 + A1 + A2	2003 2004 2006	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6 + corr. August	2007 2007
IEC 61000-4-8 A1	1993 2000	Electromagnetic compatibility (EMC) - 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	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	2004
IEC 61000-4-29	2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	EN 61000-4-29	2000
IEC 61000-6-2	2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	EN 61000-6-2 + corr. September	2005 2005

¹⁾ Undated reference.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61326-1	2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN 61326-1	2006
IEC 61326-2-1	2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	EN 61326-2-1	2006
IEC 61326-2-2	2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	EN 61326-2-2	2006
IEC 61326-2-3	2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	EN 61326-2-3	2006
IEC 61326-2-4	2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	EN 61326-2-4	2006
IEC 61326-2-5	2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1, CP 3/2	EN 61326-2-5	2006
IEC 61326-3-1	2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications	EN 61326-3-1	2008
IEC 61508-2	2000	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems	EN 61508-2	2001

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61508-4 + corr. April	1998 1999	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 4: Definitions and abbreviations	EN 61508-4	2001
IEC 61511-1 + corr. November	2003 2004	Functional safety - Safety instrumented systems for the process industry sector - Part 1: Framework, definitions, system, hardware and software requirements	EN 61511-1	2004
ISO/IEC Guide 51	1999	Safety aspects - Guidelines for their inclusion - in standards		-

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IEC 61326-3-2

Edition 1.0 2008-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical equipment for measurement, control and laboratory use – EMC requirements –
Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) – Industrial applications with specified electromagnetic environment**

**Matériel électrique de mesure, de commande et de laboratoire – Exigences relatives à la CEM –
Partie 3-2: Exigences d'immunité pour les systèmes relatifs à la sécurité et pour les matériels destinés à réaliser des fonctions relatives à la sécurité (sécurité fonctionnelle) – Applications industrielles dont l'environnement électromagnétique est spécifié**

INTERNATIONAL
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INTERNATIONALE

PRICE CODE
CODE PRIX



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL AND LABORATORY USE –
EMC REQUIREMENTS –**
**Part 3-2: Immunity requirements for safety-related
systems and for equipment intended to perform
safety-related functions (functional safety) –
Industrial applications with specified
electromagnetic environment**

FOREWORD

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International Standard IEC 61326-3-2 has been prepared by subcommittee 65A: System aspects, of IEC technical committee 65: Industrial-process measurement and control.

The IEC 61326 series cancels and replaces IEC 61326:2002 and constitutes a technical revision.

IEC 61326-3-2 is to be read in conjunction with IEC 61326-1.

The text of this standard is based on the following documents:

FDIS	Report on voting
65A/501/FDIS	65A/506/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts of the IEC 61326 series, under the general title *Electrical equipment for measurement, control and laboratory use – EMC requirements*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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- replaced by a revised edition, or
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