



**NSAI**  
Standards

Irish Standard  
I.S. EN IEC 61326-2-1:2021

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

**I.S. EN IEC 61326-2-1:2021**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN IEC 61326-2-1:2021 is the adopted Irish version of the European Document EN IEC 61326-2-1:2021, 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

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EUROPEAN STANDARD

**EN IEC 61326-2-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2021

ICS 25.040.40; 17.220.20; 33.100.20

Supersedes EN 61326-2-1:2013 and all of its  
amendments and corrigenda (if any)

English Version

**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  
(IEC 61326-2-1:2020)**

Matériel électrique de mesure, de commande et de  
laboratoire - Exigences relatives à la CEM - Partie 2-1:  
Exigences particulières - Configurations d'essai, conditions  
fonctionnelles et critères de performance pour essai de  
sensibilité et matériel de mesure pour les applications non  
protégées de la CEM  
(IEC 61326-2-1:2020)

Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-  
Anforderungen - Teil 2-1: Besondere Anforderungen -  
Prüfanordnung, Betriebsbedingungen und  
Leistungsmerkmale für empfindliche Prüf- und Messgeräte  
für Anwendungen ohne EMV-Schutzmaßnahmen  
(IEC 61326-2-1:2020)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## **EN IEC 61326-2-1:2021 (E)**

### **European foreword**

The text of document 65A/976/FDIS, future edition 3 of IEC 61326-2-1, 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 approved by CENELEC as EN IEC 61326-2-1:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-12-04 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-06-04 document have to be withdrawn

This document supersedes EN 61326-2-1:2013 and all of its amendments and corrigenda (if any).

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*The Annex ZA of EN IEC 61326-1:2021 applies with the following additions:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61326-1	2020	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN IEC 61326-1	2021

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**IEC 61326-2-1**

Edition 3.0 2020-10

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**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**

**Matériel électrique de mesure, de commande et de laboratoire –  
Exigences relatives à la CEM –  
Partie 2-1: Exigences particulières – Configurations d'essai, conditions  
fonctionnelles et critères de performance pour essai de sensibilité et matériel de  
mesure pour les applications non protégées de la CEM**



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**IEC 61326-2-1**

Edition 3.0 2020-10

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ELECTROTECHNIQUE  
INTERNATIONALE

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ICS 17.220.20; 25.040.40; 33.100.20

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **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**

#### FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61326-2-1 has been prepared by subcommittee 65A: System aspects, of IEC technical committee 65: Industrial-process measurement, control and automation.

This third edition cancels and replaces the second edition published in 2012. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- update with respect to IEC 61326-1:2020.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
65A/976/FDIS	65A/987/RVD

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

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

This part of IEC 61326 is to be used in conjunction with IEC 61326-1:2020 and follows the same numbering of clauses, subclauses, tables and figures.

When a particular subclause of IEC 61326-1 is not mentioned in this part, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in IEC 61326-1 is to be adapted accordingly.

NOTE The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in IEC 61326-1;
- unless notes are in a new subclause or involve notes in IEC 61326-1, they are numbered starting from 101 including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

A list of all parts of 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 document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## **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**

#### **1 Scope**

In addition to the scope of IEC 61326-1, this part of IEC 61326 specifies more detailed test configurations, operational conditions and performance criteria for equipment with test and measurement circuits (internal or, external to the equipment, or both) that are not EMC protected for operational and/or functional reasons, as specified by the manufacturer.

The manufacturer specifies the environment for which the product is intended to be used and selects the appropriate test level specifications of IEC 61326-1:2020.

NOTE Examples of equipment include, but are not limited to, oscilloscopes, logic analysers, spectrum analysers, network analysers, analogue instruments, digital multimeters (DMM) and board test systems.

#### **2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

Clause 2 of IEC 61326-1:2020 applies except as follows:

*Addition:*

IEC 61326-1:2020, *Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements*

#### **3 Terms and definitions**

For the purposes of this document, the terms and definitions given in IEC 61326-1:2020 and IEC 60050-161 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### **4 General**

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