

# SLOVENSKI STANDARD

## SIST EN IEC 61326-2-1:2021

01-oktober-2021

Nadomešča:  
SIST EN 61326-2-1:2013

---

**Električna oprema za merjenje, nadzor in laboratorijsko uporabo - Zahteve za elektromagnetno združljivost (EMC) - 2-1. del: Posebne zahteve - Preskusne konfiguracije, obratovalni pogoji in merila učinkovitosti za delovanje občutljive preskusne in merilne opreme za nezaščiteno uporabo EMC (IEC 61326-2-1:2020)**

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)

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-Schutzmaßnahme (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 équipement de mesure pour les applications non protégées de la CEM (IEC 61326-2-1:2020)

**Ta slovenski standard je istoveten z: EN IEC 61326-2-1:2021**

---

**ICS:**

19.080	Električno in elektronsko preskušanje	Electrical and electronic testing
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

**SIST EN IEC 61326-2-1:2021** en,fr,de

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN IEC 61326-2-1:2021](https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-7ce38ce6fb2c/sist-en-iec-61326-2-1-2021)

<https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-7ce38ce6fb2c/sist-en-iec-61326-2-1-2021>

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)

STANDARD PREVIEW  
(standards.iteh.ai)

This European Standard was approved by CENELEC on 2020-11-27. 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.  
[https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-](https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-28016640-2bb8-475e-b5f3)

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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

**Endorsement notice**  
**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

The text of the International Standard IEC 61326-2-1:2020 was approved by CENELEC as a European Standard without any modification. EN IEC 61326-2-1:2021

<https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-7ce38ce6fb2c/sist-en-iec-61326-2-1-2021>

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

*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

**ITeH STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN IEC 61326-2-1:2021

<https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-7ce38ce6fb2c/sist-en-iec-61326-2-1-2021>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN IEC 61326-2-1:2021](https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-7ce38ce6fb2c/sist-en-iec-61326-2-1-2021)

<https://standards.iteh.ai/catalog/standards/sist/28016640-2bb8-475e-b5f3-7ce38ce6fb2c/sist-en-iec-61326-2-1-2021>



# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 17.220.20; 25.040.40; 33.100.20

ISBN 978-2-8322-8949-5

**Warning! Make sure that you obtained this publication from an authorized distributor.  
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

## CONTENTS

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 General .....	5
5 EMC test plan .....	6
5.1 General .....	6
5.2 Configuration of EUT during testing .....	6
5.3 Operation conditions of EUT during testing .....	6
5.4 Specification of FUNCTIONAL PERFORMANCE .....	7
5.5 Test description .....	7
6 Immunity requirements .....	7
6.1 Conditions during the tests .....	7
6.2 Immunity test requirements .....	7
6.3 Random aspects .....	7
6.4 Performance criteria .....	7
7 Emission requirements .....	7
8 Test results and test report .....	7
9 Instructions for use .....	8
Annex A (normative) Immunity test requirements for PORTABLE TEST AND MEASUREMENT EQUIPMENT powered by battery or from the circuit being measured .....	9
Annex B (informative) Guide for analysis and assessment for electromagnetic compatibility .....	10



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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.