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## REDLINE VERSION

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### **Elektrisk utrustning för mätning, styrning och för laboratorieändamål – EMC-fordringar – Del 2-4: Särskilda fordringar – Provningssuppställningar, driftförhållanden och prestandavillkor för utrustning enligt IEC 61557-8 för isolationsövervakning och enligt IEC 61557-9 för lokalisering av isolationsfel**

*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*

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IEC 61326-2-4

Edition 3.0 2020-10  
REDLINE VERSION

# INTERNATIONAL STANDARD



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**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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 17.220.20; 25.040.40; 33.100.20

ISBN 978-2-8322-9011-8

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## CONTENTS

FOREWORD .....	3
1 Scope .....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 General .....	8
5 EMC test plan .....	8
5.1 General .....	8
5.2 Configuration of EUT during testing .....	8
5.3 Operation conditions of EUT during testing .....	9
5.4 Specification of FUNCTIONAL PERFORMANCE .....	9
5.5 Test description .....	9
6 Immunity requirements .....	9
6.1 Conditions during the tests .....	9
6.2 Immunity test requirements .....	11
6.3 Random aspects .....	12
6.4 Performance criteria .....	12
7 Emission requirements .....	13
7.1 Conditions during measurements .....	13
7.2 Emission limits .....	13
8 Test results and test report .....	14
9 Instructions for use .....	14
Annex A (normative) Immunity test requirements for PORTABLE TEST AND MEASUREMENT EQUIPMENT powered by battery or from the circuit being measured .....	15
Bibliography .....	16
Table 101 – Immunity tests .....	11
Table 102 – Performance criteria definition .....	12
Table 103 – Test conditions for quiescent and operate modes .....	13

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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  
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## FOREWORD

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International Standard IEC 61326-2-4 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 change with respect to the previous edition:

- update of the document with respect to IEC 61326-1:2020.

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

FDIS	Report on voting
65A/981/FDIS	65A/992/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.

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- Terms used throughout this document which have been defined in Clause 3 of this document and of IEC 61326-1:2020: SMALL CAPITALS.

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

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

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- reconfirmed,
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# 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

### 1 Scope

In addition to IEC 61326-1, this part of IEC 61326 specifies more detailed test configurations, operational conditions and performance criteria than IEC 61326-1 for equipment for

- insulation monitoring according to IEC 61557-8;
- insulation fault location according to IEC 61557-9.

This applies to insulation monitoring devices and for equipment for insulation fault location systems permanently or semi-permanently connected to the distribution system.

### 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:~~2012~~2020 applies, except as follows:

*Addition:*

IEC 61326-1:~~2012~~2020, *Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements*

IEC 61557-8:~~2007~~2014, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems*

IEC 61557-9:~~2009~~2014, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems*

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## **Elektrisk utrustning för mätning, styrning och för laboratorieändamål – EMC-fordringar – Del 2-4: Särskilda fordringar – Provningssuppställningar, driftförhållanden och prestandavillkor för utrustning enligt IEC 61557-8 för isolationsövervakning och enligt IEC 61557-9 för lokalisering av isolationsfel**

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*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*

Som svensk standard gäller europastandarden EN IEC 61326-2-4:2021. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61326-2-4:2021.

### **Nationellt förord**

Europastandarden EN IEC 61326-2-4:2021

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61326-2-4, Third edition, 2020 - 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**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN IEC 61326-1, utgåva 4, 2021.

Tidigare fastställd svensk standard SS-EN 61326-2-4, utgåva 2, 2013, gäller ej fr o m 2024-06-04.

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ICS 17.220.20; 33.100.20; 25.040.40

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Denna standard är fastställd av SEK Svensk Elstandard, som också kan lämna upplysningar om **sakinnehållet** i standarden.  
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English Version

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  
(IEC 61326-2-4:2020)

Matériel électrique de mesure, de commande et de laboratoire - Exigences relatives à la CEM - Partie 2-4: Exigences particulières - Configurations d'essai, conditions de fonctionnement et critères de performance pour les contrôleurs d'isolement conformes à l'IEC 61557-8 et pour les dispositifs de localisation de défaut d'isolement conformes à l'IEC 61557-9  
(IEC 61326-2-4:2020)

Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 2-4: Besondere Anforderungen - Prüfanordnung, Betriebsbedingungen und Leistungsmerkmale für Isolationsüberwachungsgeräte nach IEC 61557-8 und Geräte zur Isolationsfehlerortung nach IEC 61557-9  
(IEC 61326-2-4:2020)

This European Standard was approved by CENELEC on 2020-12-01. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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

## **European foreword**

The text of document 65A/981/FDIS, future edition 3 of IEC 61326-2-4, 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 61326-2-4:2021.

The following dates are fixed:

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

This document supersedes EN 61326-2-4:2013 and all of its amendments and corrigenda (if any).

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

### **Endorsement notice**

The text of the International Standard IEC 61326-2-4:2020 was approved by CENELEC as a European Standard without any modification.

## 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
IEC 61557-8	2014	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 8: Insulation monitoring devices for IT systems	EN 61557-8	2015
IEC 61557-9	2014	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 9: Equipment for insulation fault location in IT systems	EN 61557-9	2015

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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## CONTENTS

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 General .....	7
5 EMC test plan .....	7
5.1 General .....	7
5.2 Configuration of EUT during testing .....	7
5.3 Operation conditions of EUT during testing .....	8
5.4 Specification of FUNCTIONAL PERFORMANCE .....	8
5.5 Test description .....	8
6 Immunity requirements .....	8
6.1 Conditions during the tests .....	8
6.2 Immunity test requirements .....	9
6.3 Random aspects .....	10
6.4 Performance criteria .....	11
7 Emission requirements .....	12
7.1 Conditions during measurements .....	12
7.2 Emission limits .....	12
8 Test results and test report .....	12
9 Instructions for use .....	13
Annex A (normative) Immunity test requirements for PORTABLE TEST AND MEASUREMENT EQUIPMENT powered by battery or from the circuit being measured .....	14
Bibliography .....	15
Table 101 – Immunity tests .....	10
Table 102 – Performance criteria definition .....	11
Table 103 – Test conditions for quiescent and operate modes .....	12

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# 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

### 1 Scope

In addition to IEC 61326-1, this part of IEC 61326 specifies more detailed test configurations, operational conditions and performance criteria than IEC 61326-1 for equipment for

- insulation monitoring according to IEC 61557-8;
- insulation fault location according to IEC 61557-9.

This applies to insulation monitoring devices and for equipment for insulation fault location systems permanently or semi-permanently connected to the distribution system.

### 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*

IEC 61557-8:2014, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems*

IEC 61557-9:2014, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems*