

INTERNATIONAL STANDARD



**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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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

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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**

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.

In this document the following print types are used:

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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.

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:

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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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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*

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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EMC requirements –**

**Part 2-4: Particular requirements – Test configurations, operational conditions
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**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
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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
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7.2 Emission limits	12
8 Test results and test report	12
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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
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Addition:

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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*

SOMMAIRE

AVANT-PROPOS	17
1 Domaine d'application	19
2 Références normatives	19
3 Termes et définitions	19
4 Généralités	21
5 Plan d'essai de CEM	21
5.1 Généralités	21
5.2 Configuration de l'EST lors des essais	21
5.3 Conditions de fonctionnement de l'EST lors des essais	22
5.4 Spécification des PERFORMANCES FONCTIONNELLES	22
5.5 Description de l'essai	22
6 Exigences relatives à l'immunité	22
6.1 Conditions lors des essais	22
6.2 Exigences pour les essais d'immunité	24
6.3 Aspects aléatoires	25
6.4 Critères de performance	25
7 Exigences relatives à l'émission	27
7.1 Conditions durant les mesurages	27
7.2 Limites d'émission	27
8 Résultats d'essai et rapport d'essai	27
9 Instructions pour l'utilisation	28
Annexe A (normative) Exigences concernant les essais d'immunité pour le MATERIEL D'ESSAI ET DE MESURE PORTABLE alimenté par batterie ou par le circuit mesuré	29
Bibliographie	30
Tableau 101 – Essais d'immunité	24
Tableau 102 – Définition des critères de performance	26
Tableau 103 – Conditions d'essai pour les modes repos et fonctionnement	27

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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

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Cette troisième édition annule et remplace la deuxième édition parue en 2012. Cette édition constitue une révision technique.

Cette édition inclut la modification technique majeure suivante par rapport à l'édition précédente:

- mise à jour du document par rapport à l'IEC 61326-1:2020.

Le texte de cette Norme internationale est issu des documents suivants:

FDIS	Rapport de vote
65A/981/FDIS	65A/992/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette Norme internationale.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2.

Dans le présent document, les caractères d'imprimerie suivants sont utilisés:

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Lorsqu'un paragraphe particulier de l'IEC 61326-1 n'est pas mentionné dans la présente partie, ce paragraphe s'applique pour autant qu'il soit raisonnable. Lorsque la présente norme spécifie "addition", "modification" ou "remplacement", le texte correspondant de l'IEC 61326-1 doit être adapté en conséquence.

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- à l'exception de celles qui sont dans un nouveau paragraphe ou de celles qui concernent des notes de l'IEC 61326-1, les notes sont numérotées à partir de 101, y compris celles des articles ou paragraphes qui sont modifiés ou remplacés;
- les annexes supplémentaires sont appelées AA, BB, etc.

Une liste de toutes les parties de la série IEC 61326, publiées sous le titre général *Matériel électrique de mesure, de commande et de laboratoire – Exigences relatives à la CEM*, peut être consultée sur le site web de l'IEC.

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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

1 Domaine d'application

En complément de l'IEC 61326-1, la présente partie de l'IEC 61326 spécifie plus en détail que l'IEC 61326-1 les configurations d'essai, les conditions de fonctionnement et les critères de performance pour les équipements pour

- le contrôle de l'isolement conforme à l'IEC 61557-8;
- la localisation des défauts d'isolement conformes à l'IEC 61557-9.

Elle s'applique aux contrôleurs d'isolement et aux dispositifs relatifs aux systèmes de localisation des défauts d'isolement connectés de manière permanente ou semi-permanente au réseau de distribution.

2 Références normatives

Les documents suivants cités dans le texte constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

L'Article 2 de l'IEC 61326-1:2020 s'applique, avec les exceptions suivantes:

Addition:

IEC 61326-1:2020, *Matériel électrique de mesure, de commande et de laboratoire – Exigences relatives à la CEM – Partie 1: Exigences générales*

IEC 61557-8:2014, *Sécurité électrique dans les réseaux de distribution basse tension de 1 000 V c.a. et 1 500 V c.c. – Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection – Partie 8: Contrôleur permanent d'isolement pour réseaux IT*

IEC 61557-9:2014, *Sécurité électrique dans les réseaux de distribution basse tension de 1 000 V c.a. et 1 500 V c.c. – Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection – Partie 9: Dispositifs de localisation de défauts d'isolement pour réseaux IT*