IEC 61326-2-2

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INTERNATIONAL STANDARD

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Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE – EMC REQUIREMENTS –

Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems

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International Standard IEC 61326-2-2 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/977/FDIS	65A/988/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.

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ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE – EMC REQUIREMENTS –

Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems

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 covered by Annex A of IEC 61326-1:2020 which is:

– used for testing, measuring or monitoring of protective measures in low-voltage distribution systems, and;

– powered by battery and/or from the circuit measured, and

– portable.

Examples of such EUTs include, but are not limited to, voltage detectors, insulation testers, earth continuity testers, earth resistance testers, leakage current clamps, loop impedance testers, “residual-current-device-testers” (RCD-testers) and phase sequence testers as defined in IEC 61557 (all parts).

NOTE Particular EMC requirements for equipment covered by IEC 61557-8 and IEC 61557-9 are given in IEC 61326-2-4.

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

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 (all parts), *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures*

Bibliography

IEC 61326-2-4:2020, *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*

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*

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IEC 61326-2-2

Edition 3.0 2020-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems

Matériel électrique de mesure, de commande et de laboratoire – Exigences relatives à la CEM – Partie 2-2: Exigences particulières – Configurations d'essai, conditions de fonctionnement et critères de performance des matériels portables d'essai, de mesure et de surveillance utilisés dans des réseaux de distribution à basse tension



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Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems

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 covered by Annex A of IEC 61326-1:2020 which is:

– used for testing, measuring or monitoring of protective measures in low-voltage distribution systems, and;

– powered by battery and/or from the circuit measured, and

– portable.

Examples of such EUTs include, but are not limited to, voltage detectors, insulation testers, earth continuity testers, earth resistance testers, leakage current clamps, loop impedance testers, “residual-current-device-testers” (RCD-testers) and phase sequence testers as defined in IEC 61557 (all parts).

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

IEC 61557 (all parts), *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures*

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MATÉRIEL ÉLECTRIQUE DE MESURE, DE COMMANDE ET DE LABORATOIRE – EXIGENCES RELATIVES À LA CEM –

Partie 2-2: Exigences particulières – Configurations d'essai, conditions de fonctionnement et critères de performance des matériels portables d'essai, de mesure et de surveillance utilisés dans des réseaux de distribution à basse tension

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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 les modifications techniques majeures suivantes par rapport à l'édition précédente:

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

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

FDIS	Rapport de vote
65A/977/FDIS	65A/988/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.

La présente partie de l'IEC 61326 doit être utilisée conjointement avec l'IEC 61326-1:2020 et suit la même numérotation des articles, paragraphes, tableaux et figures.

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.

NOTE Le système de numérotation suivant est utilisé:

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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 2-2: Exigences particulières – Configurations d'essai, conditions de fonctionnement et critères de performance des matériels portables d'essai, de mesure et de surveillance utilisés dans des réseaux de distribution à basse tension

1 Domaine d'application

En complément au domaine d'application de l'IEC 61326-1, la présente partie de l'IEC 61326 donne des spécifications plus détaillées des configurations d'essai, des conditions fonctionnelles et des critères de performance pour les matériels couverts par l'Annexe A de l'IEC 61326-1:2020, qui sont:

– utilisés pour le contrôle, la mesure ou la surveillance de mesures de protection dans les réseaux de distribution à basse tension, et;

– alimentés par batterie et/ou par le circuit mesuré, et

– portables.

Exemples de tels EST (entre autres): détecteurs de tension, appareils d'essai d'isolement, appareils d'essai de continuité de terre, appareils d'essai de résistance à la terre, pinces de courant de fuite, appareils d'essai d'impédance de boucle, "appareils d'essai de dispositifs à courant résiduel" (appareils d'essai DCR) et appareils d'essai d'ordre de phases, tels que définis dans l'IEC 61557 (toutes les parties).

NOTE Les exigences CEM particulières pour les matériels couverts par l'IEC 61557-8 et l'IEC 61557-9 sont données dans l'IEC 61326-2-4.

Le fabricant spécifie l'environnement auquel le produit est destiné et/ou sélectionne les spécifications pertinentes du niveau d'essai de l'IEC 61326-1.

2 Références normatives

Les documents suivants sont cités en référence de manière normative, en intégralité ou en partie, dans le présent document et sont indispensables pour son application. 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 l'exception suivante:

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 (toutes les parties), *Sécurité électrique dans les réseaux de distribution basse tension au plus égale à 1 000 V c.a. et 1 500 V c.c. – Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection*