

# SLOVENSKI STANDARD oSIST prEN IEC 61326-2-2:2019

01-november-2019

Električna oprema za merjenje, nadzor in laboratorijsko uporabo - Zahteve za elektromagnetno združljivost (EMC) - 2-2. del: Posebne zahteve - Preskusne konfiguracije, obratovalni pogoji in merila za učinkovitosti za prenosno preskuševalno, merilno opremo in opremo za nadzorovanje, ki se uporablja v nizkonapetostnih distribucijski sistemih

Electrical equipment for measurement, control and laboratory use - EMC requirements -Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in lowvoltage distribution systems (IEC 61326-2-2:2012) (standards.iteh.ai)

Elektrische Mess-, Steuer-, Regels und Laborgeräte EMV-Anforderungen – Teil 2-2: Besondere Anforderungen Rrüfanordnung, Betriebsbedingungen und Leistungsmerkmale für ortsveränderliche Prüf-, Mess- und Überwachungsgeräte für den Gebrauch in Niederspannungs-Stromversorgungsnetzen

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 portatifs d'essai, de mesure et de surveillance utilisés dans des systèmes de distribution basse tension

Ta slovenski standard je istoveten z: prEN IEC 61326-2-2:2019

## ICS:

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

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# 65A/924/CDV

### COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:	
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DATE OF CIRCULATION:	CLOSING DATE FOR VOTING:
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SUPERSEDES DOCUMENTS:	
65A/905/CD, 65A/915A/CC	

IEC SC 65A : SYSTEM ASPECTS SECRETARY: SECRETARIAT: United Kingdom Mr Petar Luzajic OF INTEREST TO THE FOLLOWING COMMITTEES: PROPOSED HORIZONTAL STANDARD: TC 77, SC 77A Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary. FUNCTIONS CONCERNED: ENVIRONMENT **EMC** SAFETY QUALITY ASSURANCE NOT SUBMITTED FOR CENELEC PARALLEL VOTING SUBMITTED FOR CENELEC PARALLEL VOTING (standards.iteh.ai) Attention IEC-CENELEC parallel voting The attention of IEC National Committees Simempers IoC 61326-2-2:2020 CENELEC, is drawn to the fact that this Committee Draft for Note rds/sist/a07a30bd-5743-4a7d-803c-(CDV) is submitted for parallel voting. 4a79b308bd6f/ksist-fpren-iec-61326-2-2-2020

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

#### TITLE:

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

PROPOSED STABILITY DATE: 2023

NOTE FROM TC/SC OFFICERS:

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27	INTERNATIONAL ELECTROTECHNICAL COMMISSION	
28 29		
30	ELECTRICAL EQUIPMENT FOR MEASUREMENT,	
31	CONTROL AND LABORATORY USE -	
32	EMC REQUIREMENTS –	
33		
34	Part 2-2: Particular requirements –	
35	Test configurations, operational conditions and	
36	performance criteria for portable test, measuring and	
37	monitoring equipment used in low-voltage distribution systems	
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75 76 77	International Standard IEC 61326-2-2 has been prepared by subcommittee 65A: Syste aspects, of IEC technical committee 65: Industrial-process measurement, control ar automation.	
78 79	This third edition cancels and replaces the second edition published in 2012. This edition constitutes a technical revision.	on
80	The main technical changes with regard to the previous edition are as follows:	

- Update with respect to IEC 61326-1:2012. 81
- 82

#### 65A/924/CDV

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83 The text of this standard is based on the following documents:

FDIS	Report on voting
65A/642/FDIS	65A/653/RVD

84

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

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

This part of IEC 61326 series is to be used in conjunction with IEC 61326-1:20xx and follows the same numbering of clauses, subclauses, tables and figures.

90 When a particular subclause of IEC 61326-1 is not mentioned in this part, that subclause 91 applies as far as is reasonable. When this standard states "addition", "modification" or 92 "replacement", the relevant text in IEC 61326-1 is to be adapted accordingly.

- 93 NOTE The following numbering system is used:
- 94 subclauses, tables and figures that are numbered starting from 101 are additional to those in IEC 61326-1;
- 96 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;
- 98 additional annexes are lettered AA\_BB, etc. DARD PREVIEW

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.

#### kSIST FprEN IEC 61326-2-2:2020

102 The committee has decided that the contents of this publication will remain unchanged until 103 the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data 104 related to the specific publication. At this date, the publication will be

- 105 reconfirmed,
- 106 withdrawn,
- 107 replaced by a revised edition, or
- 108 amended.
- 109

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110 111 112	ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE – EMC REQUIREMENTS –
113 114 115 116 117	Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems
118 119 120	1 Scope
121 122 123 124	<b>1 Scope</b> 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 which is:
125 126	<ul> <li>used for testing, measuring or monitoring of protective measures in low-voltage distribution systems, and;</li> </ul>

- powered by battery and/or from the circuit measured, and 127
- 128 portable.

Examples of such EUT include, but are not limited to, voltage detectors, insulation testers, 129 earth continuity testers, earth resistance testers, leakage current clamps, loop impedance 130 testers, "residual-current-device-testers" (RCD-testers) and phase sequence testers as 131

defined in IEC 61557. 132

#### kSIST FprEN IEC 61326-2-2:2020

NOTE Particular EMC requirements for equipment covered by IEC 61557-8 and IEC 61557-9 are given in 4a/9b308bd0/ksist-ipren-iec-61326-2-2-2020 133 134 IEC 61326-2-4.

The manufacturer specifies the environment for which the product is intended to be used 135 and/or selects the appropriate test level specifications of IEC 61326-1. 136

#### **Normative references** 137 2

138 The following documents, in whole or in part, are normatively referenced in this document and 139 are indispensable for its application. For dated references, only the edition cited applies. For 140 undated references, the latest edition of the referenced document (including any amendments) applies. 141

142 Clause 2 of IEC 61326-1:20xx applies, except as follows:

143 Addition:

144 IEC 61326-1:20xx, Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements 145

IEC 61557 (all parts), Electrical safety in low voltage distribution systems up to 1 000 V a.c. 146 147 and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures

#### **Terms and definitions** 148 3

For the purposes of this document, the terms and definitions given in IEC 61326-1 and 149 150 IEC 60050-161 apply.

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#### 151 **4 General**

152 Clause 4 of IEC 61326-1:20xx applies.

#### 153 5 EMC test plan

- 154 **5.1 General**
- 155 Subclause 5.1 of IEC 61326-1:20xx applies.

#### 156 5.2 Configuration of EUT during testing

- 157 Subclause 5.2 of IEC 61326-1:20xx applies, except as follows:
- 158 Addition:

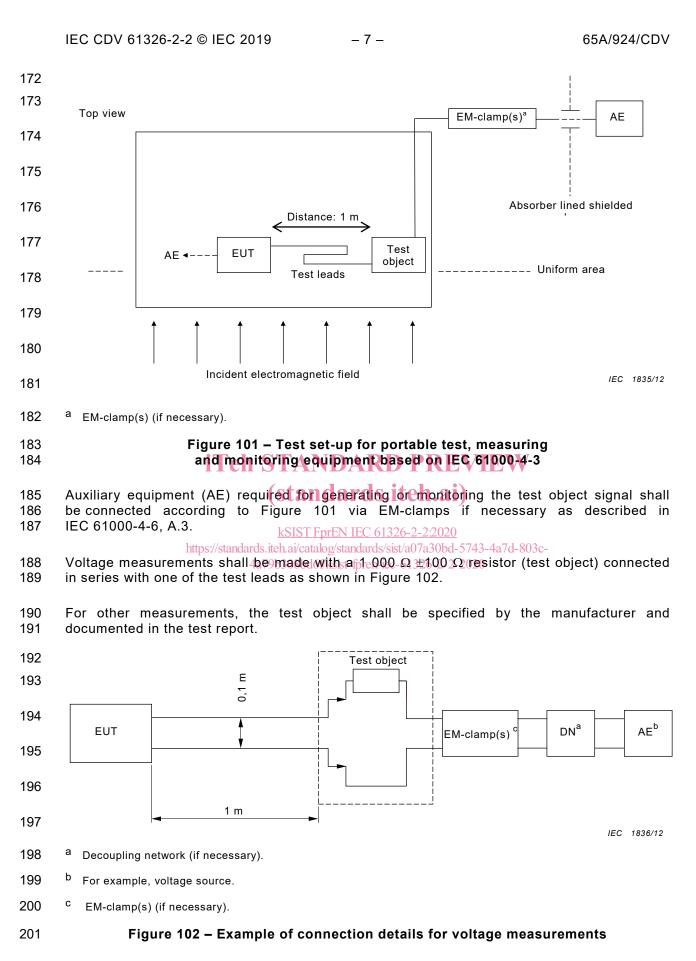
#### 159 5.2.4.101 Test and measurement I/O ports

160 Electrostatic discharge shall be applied to the mated connector or the shield of the unmated 161 port, but not to the inner pins of shielded port or cable connectors (for example, BNC, D-162 subminiature, GPIB, RS232, USB, etc.).

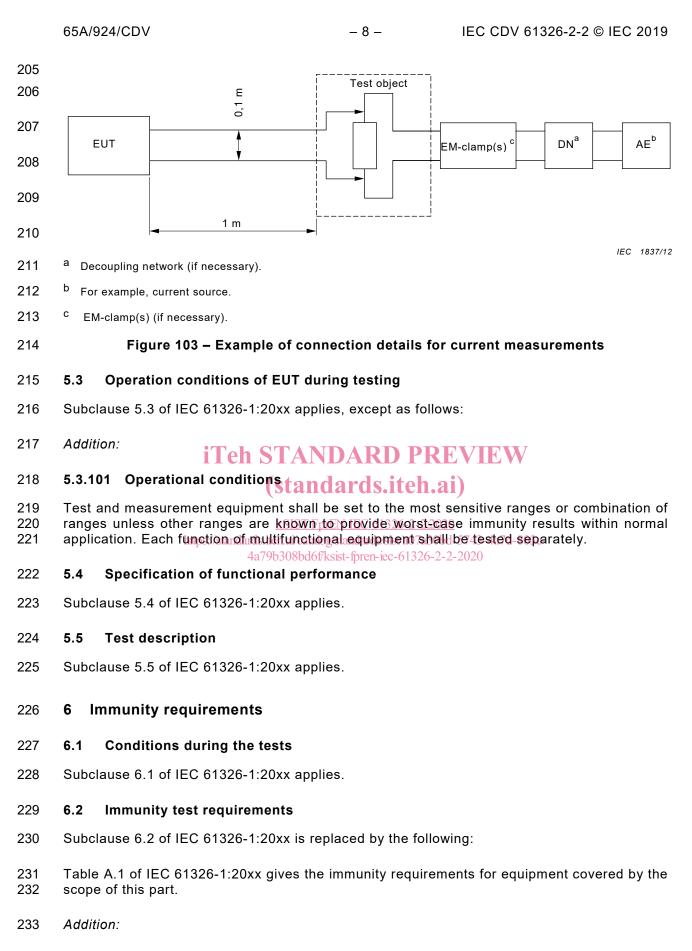
For the test according to IEC 61000-4-3 the following conditions shall be met. Test and measurement ports shall be connected with test leads recommended or supplied with the EUT. Where the test leads are unspecified, typical test leads shall be used. The test leads shall be connected and arranged in a typical configuration for each operation mode, according to Figure 101.

#### kSIST FprEN IEC 61326-2-2:2020

- 168 If the test leads recommended on supplied are longer than 15m 3 each one-should be bundled 169 so that the test object is in a horizontal distance of 1 m to the EUT.
- 170 The test leads shall be arranged 0,1 m apart in a horizontal position on the test table.
- 171



202 Current measurements shall be made with a 100  $\Omega \pm 10 \Omega$  resistor (test object) connected in 203 parallel with the test leads as shown in Figure 103.



## 234 6.2.101 Electromagnetic field

If the maximum dimension of the equipment enclosure is <0,3 m, the test is performed from</li>
 only one side in accordance with Figure 101 and noted in the test report.