
Električna oprema za merjenje, kontrolo in laboratorijsko uporabo - Zahteve za elektromagnetno združljivost (EMC) - 2-5. del: Posebne zahteve - Preskusne konfiguracije, obratovalni pogoji in merila za delovanje terenskih naprav z vmesnikom po IEC 61784-1

Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1

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Matériel électrique de mesure, de commande et de laboratoire - Exigences relatives à la CEM - Partie 2-5: Exigences particulières - Configurations d'essai, conditions de fonctionnement et critères d'aptitude à la fonction pour les équipements de terrain avec les interfaces utilisant des bus de terrain conformes à la CEI 61784-1

Ta slovenski standard je istoveten z: prEN IEC 61326-2-5:2019

ICS:

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

oSIST prEN IEC 61326-2-5:2019

en,fr,de

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COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 61326-2-5 ED3

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CLOSING DATE FOR VOTING:

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SUPERSEDES DOCUMENTS:

65A/908/CD, 65A/918A/CC

IEC SC 65A: SYSTEM ASPECTS

SECRETARIAT:

United Kingdom

SECRETARY:

Mr Petar Luzajic

OF INTEREST TO THE FOLLOWING COMMITTEES:

TC 77, SC 77A

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☒ EMC☐ ENVIRONMENT☐ QUALITY ASSURANCE☐ SAFETY☒ SUBMITTED FOR CENELEC PARALLEL VOTING☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING**Attention IEC-CENELEC parallel voting**

The attention of IEC National Committees members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

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 2-5: Particular requirements – Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1

PROPOSED STABILITY DATE: 2023

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL EQUIPMENT FOR MEASUREMENT,
CONTROL AND LABORATORY USE –
EMC REQUIREMENTS –**
**Part 2-5: Particular requirements –
Test configurations, operational conditions and performance criteria
for field devices with field bus interfaces according to IEC 61784-1**
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- International Standard IEC 61326-2-5 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.

84 The main technical changes with regard to the previous edition are as follows:

85 – Update with respect to IEC 61326-1:20xx.

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

FDIS	Report on voting
65A/xxx/FDIS	65A/xxx/RVD

87
88 Full information on the voting for the approval of this standard can be found in the report on
89 voting indicated in the above table.

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

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

93 When a particular subclause of IEC 61326-1 is not mentioned in this part, that subclause
94 applies as far as is reasonable. When this standard states “addition”, “modification” or
95 “replacement”, the relevant text in IEC 61326-1 is to be adapted accordingly.

96 NOTE The following numbering system is used:

- 97 – subclauses, tables and figures that are numbered starting from 101 are additional to those in
98 IEC 61326-1;
99 – unless notes are in a new subclause or involve notes in IEC 61326-1, they are numbered starting from 101
100 including those in a replaced clause or subclause;
101 – additional annexes are lettered AA, BB, etc.

102 A list of all parts of IEC 61326 series, under the general title *Electrical equipment for*
103 *measurement, control and laboratory use – EMC requirements* can be found on the IEC
104 website.

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

- 108 • reconfirmed,
109 • withdrawn,
110 • replaced by a revised edition, or
111 • amended.

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

**Part 2-5: Particular requirements –
Test configurations, operational conditions and performance criteria
for field devices with field bus interfaces according to IEC 61784-1**

1 Scope

In addition to the requirements of International Standard IEC 61326-1:20xx, this part of IEC 61326 series treats the particular features for EMC testing of field devices with field bus interfaces. This part of IEC 61326 covers only the field bus interface of the equipment.

NOTE The other functions of the equipment remain covered by other parts of IEC 61326 series.

This part refers only to field devices intended for use in process control and process measuring.

In this standard field devices with interfaces according to IEC 61784-1:2014, CP 3/2 and CP 1/1 as defined in IEC 61784 are covered. Other field busses may be included in future editions of this standard.

The IEC 61784-1:2014 specifies a set of protocol specific communication profiles based on IEC 61158.

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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, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 61326-1:20xx applies except as follows:

Addition:

IEC 61158-2:2014, *Industrial communication networks – Fieldbus specifications – Part 2: Physical layer specification and service definition*

IEC 61158-3-3:2014, *Industrial communication networks – Fieldbus specifications – Part 3-3: Data-link layer service definition – Type 3 elements*

IEC 61158-5-5:2014, *Industrial communication networks – Fieldbus specifications – Part 5-5: Application layer service definition – Type 5 elements*

IEC 61158-6-10:2014, *Industrial communication networks – Fieldbus specifications – Part 6-10: Application layer protocol specification – Type 10 elements*

154 IEC 61784-1:2014, *Industrial communication networks – Profiles – Part 1: Fieldbus profiles*

155 **3 Terms and definitions**

156 Clause 3 of IEC 61326-1:20xx applies.

157 **4 General**

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

159 **5 EMC test plan**

160 **5.1 General**

161 Subclause 5.1 of IEC 61326-1:20xx applies.

162 **5.2 Configuration of EUT during testing**

163 Subclause 5.2 of IEC 61326-1:20xx applies, except as follows:

164 *Addition:*

165 Additional requirements: see Annexes AA and BB.

166 **5.3 Operation conditions of EUT during testing**

167 Subclause 5.3 of IEC 61326-1:20xx applies, except as follows:

168 *Addition:*

169 Additional requirements: see Annexes AA and BB.

170 **5.4 Specification of functional performance**

171 Subclause 5.4 of IEC 61326-1:20xx applies.

172 **5.5 Test description**

173 Subclause 5.5 of IEC 61326-1:20xx applies.

174 **6 Immunity requirements**

175 **6.1 Conditions during the tests**

176 Subclause 6.1 of IEC 61326-1:20xx applies.

177 **6.2 Immunity test requirements**

178 Subclause 6.2 of IEC 61326-1:20xx applies.

179 **6.3 Random aspects**

180 Subclause 6.3 of IEC 61326-1:20xx applies.

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6.4 Performance criteria

Subclause 6.4 of IEC 61326-1:20xx applies, except as follows:

Addition:

Additional requirements: see Annexes AA and BB.

7 Emission requirements

Clause 7 of IEC 61326-1:20xx applies.

8 Test results and test report

Clause 8 of IEC 61326-1:20xx applies, except as follows:

Addition:

The type of shield connection at the EUT shall be stated in the test report.

9 Instructions for use

Clause 9 of IEC 61326-1:20xx applies.

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