

This is a preview of "BS EN 61326-2-5:2013". Click here to purchase the full version from the ANSI store.

BS EN 61326-2-5:2013



BSI Standards Publication

Electrical equipment for measurement, control and laboratory use — EMC requirements

Part 2-5: Particular requirements — Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1 (IEC 61326-2-5:2012)

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

raising standards worldwide™



This is a preview of "BS EN 61326-2-5:2013". [Click here to purchase the full version from the ANSI store.](#)

This British Standard is the UK implementation of EN 61326-2-5:2013. It is identical to IEC 61326-2-5:2012. It supersedes BS EN 61326-2-5:2006, which will be withdrawn on 6 November 2015.

The UK participation in its preparation was entrusted by Technical Committee GEL/65, Measurement and control, to Subcommittee GEL/65/1, System considerations.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2013.

Published by BSI Standards Limited 2013.

ISBN 978 0 580 70409 3

ICS 25.040.40; 33.100.01

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2013.

Amendments issued since publication

Amd. No.	Date	Text affected
-----------------	-------------	----------------------

This is a preview of "BS EN 61326-2-5:2013". [Click here to purchase the full version from the ANSI store.](#)

EUROPÄISCHE NORM

January 2013

ICS 17.220; 25.040.40; 33.100

Supersedes EN 61326-2-5:2006

English version

**Electrical equipment for measurement, control and laboratory use -
EMC requirements -
Part 2-5: Particular requirements -
Test configurations, operational conditions and performance criteria for
devices with field bus interfaces according to IEC 61784-1
(IEC 61326-2-5:2012)**

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 d'aptitude à la
fonction pour les appareils en exploitation
avec des interfaces utilisant des bus de
terrain conformes à la CEI 61784-1
(CEI 61326-2-5:2012)

Elektrische Mess-, Steuer-, Regel- und
Laborgeräte – EMV-Anforderungen – Teil
2-5: Besondere Anforderungen –
Prüfanordnungen, Betriebsbedingungen
und Leistungsmerkmale für Feldgeräte mit
Feldbus-Schnittstellen gemäß IEC 61784-
1
(IEC 61326-2-5:2012)

This European Standard was approved by CENELEC on 2012-11-06. 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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

This is a preview of "BS EN 61326-2-5:2013". [Click here to purchase the full version from the ANSI store.](#)

Foreword

The text of document 65A/643/FDIS, future edition 2 of IEC 61326-2-5, 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 61326-2-5:2013.

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) 2013-08-06
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-11-06

This document supersedes EN 61326-2-5:2006.

EN 61326-2-5:2013 includes the following significant technical changes with respect to EN 61326-2-5:2006:

– Update with respect to EN 61326-1:2013.

EN 61326-2-5:2013 is to be used in conjunction with EN 61326-1:2013 and follows the same numbering of clauses, subclauses, tables and figures.

When a particular subclause of EN 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 EN 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 EN 61326-1;
- unless notes are in a new subclause or involve notes in EN 61326-1, they are numbered starting from 101 including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 61326-2-5:2012 was approved by CENELEC as a European Standard without any modification.

This is a preview of "BS EN 61326-2-5:2013". [Click here to purchase the full version from the ANSI store.](#)

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

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Annex ZA of EN 61326-1:2013 applies, except as follows:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61158-2	2010	Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition	EN 61158-2	2010
IEC 61158-3-3	2007	Industrial communication networks - Fieldbus specifications - Part 3-3: Data-link layer service definition - Type 3 elements	EN 61158-3-3	2008
IEC 61158-5-5	2007	Industrial communication networks - Fieldbus specifications - Part 5-5: Application layer service definition - Type 5 elements	EN 61158-5-5	2008
IEC 61158-6-10	2010	Industrial communication networks - Fieldbus specifications - Part 6-10: Application layer protocol specification - Type 10 elements	EN 61158-6-10	2012
IEC 61784-1	2010	Industrial communication networks - Profiles - Part 1: Fieldbus profiles	EN 61784-1	2010

This is a preview of "BS EN 61326-2-5:2013". [Click here to purchase the full version from the ANSI store.](#)

ANNEX ZZ
(informative)

Coverage of Essential Requirements of EU Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers protection requirements of Annex I, Article 1 of the EC Directive 2004/108/EC.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive[s] concerned.

NOTE Other requirements and other EU Directives may be applicable to the products falling within the scope of this standard.

This is a preview of "BS EN 61326-2-5:2013". [Click here to purchase the full version from the ANSI store.](#)

CONTENTS

1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	General	6
5	EMC test plan	6
5.1	General	6
5.2	Configuration of EUT during testing	6
5.3	Operation conditions of EUT during testing	6
5.4	Specification of functional performance	6
5.5	Test description	6
6	Immunity requirements	6
6.1	Conditions during the tests	6
6.2	Immunity test requirements	6
6.3	Random aspects	6
6.4	Performance criteria	7
7	Emission requirements	7
8	Test results and test report	7
9	Instructions for use	7
	Annex AA (normative) Particular requirements – Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1 CP 1/1	8
	Annex BB (normative) Particular requirements – Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1 CP 3/2	13
	Figure AA.1 – Test set up for EUT with CP 1/1 interface	10
	Figure BB.1 – Test set up for EUT with CP 3/2 interface	15