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Industrial-process control systems - Recorders - Testing and performance evaluation

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/25

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EUROPÄISCHE NORM

January 2025

ICS 25.040.40

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English Version

**Industrial-process control systems - Recorders - Testing and  
performance evaluation  
(IEC 63206:2024)**

Systèmes de commande de processus industriels -  
Enregistreurs - Essais et évaluation des performances  
(IEC 63206:2024)

Systeme der industriellen Prozessleittechnik - Schreiber -  
Prüfung und Bewertung des Betriebsverhaltens  
(IEC 63206:2024)

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**EN IEC 63206:2025 (E)****European foreword**

The text of document 65B/1254/FDIS, future edition 1 of IEC 63206, prepared by SC 65B "Measurement and control devices" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63206:2025.

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- latest date by which the document has to be implemented at national (dop) 2026-01-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-01-31 document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 62008:2005	NOTE	Approved as EN 62008:2005 (not modified)
IEC 61143-1:1992	NOTE	Approved as EN 61143-1:1994 (not modified)
IEC 61987-13:2016	NOTE	Approved as EN 61987-13:2016 (not modified)
IEC 61987-1:2006	NOTE	Approved as EN 61987-1:2007 (not modified)
IEC 60654-2:1979	NOTE	Approved as EN 60654-2:1997 (not modified)
IEC 61158 series	NOTE	Approved as EN 61158 series
IEC 61143-2:1992	NOTE	Approved as EN 61143-2:1994 (not modified)
IEC 61298-1:2008	NOTE	Approved as EN 61298-1:2008 (not modified)
IEC 61298-2:2008	NOTE	Approved as EN 61298-2:2008 (not modified)
IEC 61298-3:2008	NOTE	Approved as EN 61298-3:2008 (not modified)
IEC 61298-4:2008	NOTE	Approved as EN 61298-4:2008 (not modified)
ISO/IEC 17025:2017	NOTE	Approved as EN ISO/IEC 17025:2017 (not modified)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-313	-	International Electrotechnical Vocabulary (IEV) - Electrical and electronic measurements and measuring instruments - Part 313: Types of electrical measuring instruments	-	-
IEC 60050-351	-	International Electrotechnical Vocabulary - Part 351: Control technology	-	-
IEC 61003-1	2016	Industrial-process control systems - Instruments with analogue inputs and two- or multi-position outputs - Part 1: Methods for evaluating performance	EN 61003-1	2016
IEC 61010-1	2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	EN 61010-1	2010
+ A1 (mod)	2016		+ A1	2019
IEC 61326-1	2020	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN IEC 61326-1	2021
IEC 62828-1	2017	Reference conditions and procedures for testing industrial and process measurement transmitters - Part 1: General procedures for all types of transmitters	EN IEC 62828-1	2018



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Edition 1.0 2024-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Industrial-process control systems – Recorders – Testing and performance evaluation**

**Systèmes de commande de processus industriels – Enregistreurs – Essais et évaluation des performances**

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IEC 63206

Edition 1.0 2024-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Industrial-process control systems – Recorders – Testing and performance evaluation**

**Systèmes de commande de processus industriels – Enregistreurs – Essais et évaluation des performances**

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ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL-PROCESS CONTROL SYSTEMS –  
RECORDERS –  
TESTING AND PERFORMANCE EVALUATION**

## FOREWORD

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IEC 63206 has been prepared by subcommittee 65B: Measurement and control devices, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

The IEC 63206 cancels and replaces the IEC 60873-1:2003 and IEC 60873-2:2004, of which it proposes revisions and updates.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65B/1254/FDIS	65B/1276/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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## INTRODUCTION

IEC 63206 is intended for use by manufacturers to determine the performance of their products and by users or independent testing bodies to verify manufacturers' performance specifications.

IEC 63206 has fully covered IEC 60873-1 and IEC 60873-2 which are withdrawn.

## INDUSTRIAL-PROCESS CONTROL SYSTEMS – RECORDERS – TESTING AND PERFORMANCE EVALUATION

### 1 Scope

IEC 63206 specifies the characterization, the classification (e.g.: analogue chart recorder, digital recorder, X-Y recorder, paperless recorder, event recorder, data logger, and data acquisition device, etc.) and performance evaluation methods of recorders. It covers type tests as well as routine tests.

This document is applicable to recorder devices and recorder modules for control systems.

### 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.

IEC 60050-313, *International Electrotechnical Vocabulary (IEV) – Electrical and electronic measurements and measuring instruments – Part 313: Types of electrical measuring instruments* (available at <<http://www.electropedia.org>>)

IEC 60050-351, *International Electrotechnical Vocabulary (IEV) – Part 351: Control technology* (available at <<http://www.electropedia.org>>)

IEC 61003-1:2016, *Industrial-process control systems – Instruments with analogue inputs and two- or multi-position outputs – Part 1: Methods for evaluating performance*

IEC 61010-1:2010, *Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1 General requirements*  
IEC 61010-1:2010/AMD1:2016

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

IEC 62828-1:2017, *Reference conditions and procedures for testing industrial and process measurement transmitters – Part 1: General procedures for all types of transmitters*

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