IEC 63206

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

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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CONTENTS

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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.

This 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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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IEC 63206 has fully covered IEC 60873-1 and IEC 60873-2 which are withdrawn.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

3 Terms, definitions, abbreviated terms and acronyms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-313, IEC 60050-351, IEC 62828-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

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