



# INTERNATIONAL STANDARD

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**Process measurement and control devices - General methods and procedures  
for evaluating performance -  
Part 2: Tests under reference conditions**

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**FOREWORD**

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IEC 61298-2 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 third edition cancels and replaces the second edition published in 2008. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Process measurement transmitters (PMT) have been removed from the scope of this standard.

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Draft	Report on voting
65B/1311/FDIS	65B/1322/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).

A list of all parts of the IEC 61298 series, under the general title *Process measurement and control devices - General methods and procedures for evaluating performance*, can be found on the IEC website.

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](http://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- withdrawn, or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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This document is intended as a reference document for any future standards developed within the IEC or other standards organizations, concerning the evaluation of process instrumentation, except process measurement transmitters (PMT) which are standardized by the IEC 62828 series.

This common standardized basis can be utilized for the preparation of future relevant standards, as follows:

- any test method or procedure, already treated in this document, will be specified and described in the new standard by referring to the corresponding clause of this document. Consequently, new editions of this document are revised without any change in numbering and scope of each clause;
- any particular method or procedure, not covered by this document, will be developed and specified in the new standard in accordance with the criteria, as far as they are applicable, stated in this document;
- any conceptual or significant deviation from the content of this document, will clearly be identified and justified if introduced in a new standard.

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This part of IEC 61298 specifies general methods and procedures for conducting tests and reporting on the functional and performance characteristics of process instrumentation except process measurement transmitters (PMT) which are standardized by IEC 62828 series. The tests are applicable to any such devices characterized by their own specific input and output variables, and by the specific relationship (transfer function) between the inputs and outputs and include analogue and digital devices. For devices that require special tests, this standard can be used, together with any product specific standard specifying special tests.

This document covers tests made under reference conditions.

## 2 Normative references

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.

IEC 60050-300, *International Electrotechnical Vocabulary (IEV) - Electrical and electronic measurements and measuring instruments - Part 311: General terms relating to measurements - Part 312: General terms relating to electrical measurements - Part 313: Types of electrical measuring instruments - Part 314: Specific terms according to the type of instrument*, available at <https://www.electropedia.org/>

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

IEC 61010-1, *Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements*

IEC 61298-1:2026, *Process measurement and control devices - General methods and procedures for evaluating performance - Part 1: General considerations*

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IEC 60050-845:2020, *International electrotechnical vocabulary (IEV) - Part 845: Lighting*

IEC 62828 (all parts), *Reference conditions and procedures for testing industrial and process measurement transmitters*

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