
Oprema za merjenje električne energije - Splošne zahteve, preskusi in preskusni pogoji - 11. del: Merilna oprema

Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment

Elektrizitätszähler - Allgemeine Anforderungen, Prüfungen und Prüfbedingungen - Teil 11: Messeinrichtungen

équipement de comptage de l'électricité - Exigences générales, essais et conditions d'essai - Partie 11: équipement de comptage

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91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

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TITLE:

Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Electricity metering equipment - General requirements, tests and test conditions -**Part 11: Metering equipment**

FOREWORD

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IEC 62052-11:2025 has been prepared by IEC technical committee 13: Electrical energy measurement and control. It is an International Standard.

This third edition cancels and replaces the second edition published in 2020. This edition constitutes a technical revision.

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

- a) Normative references have been updated,
- b) **Transducer-operated meters** included in scope (tested without **transducers**)
- c) Definitions of instrument transformers, current sensors, transducers, and **transducer-operated meters** have been added,
- d) Definition of **accuracy class** has been revised; definition of **accuracy class** index has been removed,
- e) Definition of **transitional current signal**, has been added, based on OIML R-46:2012; in the documents specifying particular requirements (the **accuracy class** standards), the **starting current signal**, **minimum current signal**, and **maximum current signal** have been expressed as fractions of the transitional current;
- f) Definition of **rated impulse voltage** has been added,
- g) The vibration test has been changed from single tone sinusoidal vibration to random vibration, in **5.2.3**
- h) **meter** marking **6.2** has been revised,
- i) **Repeatability** test points have been revised in **7.8**
- j) Acceptance criteria for environmental tests **8.3.2** have been revised, along with the dry heat test **8.3.3**, and the cold test **8.3.4**,
- k) Acceptance criteria for the tests of external influences have been revised.
- l) The test of immunity to AC voltage dips and interruptions **9.3.2.1** has been revised,
- m) The test of immunity to DC ripple **9.3.2.3** has been added,
- n) The test of immunity to conducted, differential mode disturbances and signalling in the frequency range of 2 kHz to 150 kHz has been added for DC meters, **9.3.8.3**. This test has been moved from IEC 62053-41 to this document,
- o) The **surge** immunity test **9.3.9** has been revised. The **surge** tests in line to earth configuration have been added for **mains port**,
- p) The ring wave immunity test **9.3.10** has been revised,
- q) **Table D.2** has been revised to include recommended symbols for DC meters,
- r) New informative **Annex N** has been added to describe the recommended application of this document to **transducer-operated meters**,
- s) New informative **Annex O** has been added to describe the recommended application of this document to meters with **detached displays**,
- t) New informative **Annex P** has been added to describe the geometric representations of active and **reactive power**. **Annex P** has been moved from IEC 62053-24 to this document.
- u) New informative **Annex Q** has been added to describe a future test under consideration: test of immunity to conducted **common mode** disturbances in the frequency range from d.c. to 150 kHz.
- v) Mathematical formulas complementing the definitions of AC and DC measured quantities have been added in **Annex R**, based on ANSI C12.31

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w) "indicating displays" are now just "displays "

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

Draft	Report on voting
XX/XX/FDIS	XX/XX/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 [change language if necessary].

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.

A list of all parts in the IEC 62052 series, published under the general title *Electricity metering equipment - General requirements*, tests and test conditions, 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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to prepare themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than two years from the date of publication.

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INTRODUCTION

The general overview and organization of the IEC 6205x series of standards applicable to electricity metering and load control equipment is as follows:

PARTICULAR REQUIREMENTS, ACCURACY CLASSES		GENERAL REQUIREMENTS, AND TEST METHODS	SAFETY	DEPENDABILITY	ACCEPTANCE INSPECTION
IEC 62053-11:2003	Electromechanical meters, active energy directly connected, classes 0,5, 1, 2	IEC 62052-11:2025	IEC 62052-31:2024	IEC 62059-11:2002, IEC 62059-21:2002, IEC 62059-41:2006, IEC 62059-32-1:2011, IEC 62059-31-1:2008 (1)	IEC 62058-11:2008, IEC 62058-31:2008 (2)
IEC 62053-21 edition 3 CDV:2026	Static meters, active energy directly connected, transformer-operated, and transducer-operated, classes 0,5, 1, 2				
IEC 62053-22 edition 3 CDV:2026	Static meters, active energy, transformer-operated and transducer-operated, classes 0,1 S, 0,2 S, 0,5 S				
IEC 62053-23:2020	Static meters, reactive energy directly connected, transformer-operated, and transducer-operated, classes 2, 3				
IEC 62053-24 edition 3 CDV:2026	Static meters, reactive energy directly connected, transformer-operated, and transducer-operated, classes 0,5 S, 1 S, 1, 2, 3				
IEC 62053-41:2021	Static meters, DC energy, directly connected, classes 0,5, 1				
IEC TS 62053-25:2025	Digital revenue meters for AC active energy (class 0,01 D) and AC reactive energy (class 0,01 D)	IEC 62052-21:2004		----	----
IEC 62054-11:2004	Ripple control receivers.			same as (1)	same as (2)
IEC 62054-21:2004	Time switches				

This part of IEC 62052 is to be used with relevant parts of the IEC 62052, IEC 62053, IEC 62058 and IEC 62059 series:

IEC 62052-31:2024, *Electricity metering equipment - General requirements, tests and test conditions - Part 31: Product safety requirements and tests*