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**Oprema za merjenje električne energije - Splošne zahteve, preskusi in preskuševalni pogoji - 41. del: Metode beleženja energije in zahteve za večenergijske in večtarifne števec (IEC 62052-41:2022)**

Electricity metering equipment - General requirements, tests and test conditions - Part 41: Energy registration methods and requirements for multi-energy and multi-rate meters (IEC 62052-41:2022)

Elektrizitätszähler - Allgemeine Anforderungen, Prüfungen und Prüfbedingungen - Teil 41: Energieerfassungsmethoden und -anforderungen für Zähler für unterschiedliche elektrische Energiearten und Mehrtarifzähler (IEC 62052-41:2022)

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Équipement de comptage de l'électricité - Exigences générales, essais et conditions d'essai - Partie 41: Méthodes d'enregistrement de l'énergie et exigences relatives aux compteurs à tarifs multiples et aux compteurs à énergies multiples (IEC 62052-41:2022)

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**Electricity metering equipment - General requirements, tests and test conditions - Part 41: Energy registration methods and requirements for multi-energy and multi-rate meters (IEC 62052-41:2022)**

Équipement de comptage de l'électricité - Exigences générales, essais et conditions d'essai - Partie 41: Méthodes d'enregistrement de l'énergie et exigences relatives aux compteurs à tarifs multiples et aux compteurs à énergies multiples (IEC 62052-41:2022)

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 62052-41:2022 (E)****European foreword**

The text of document 13/1869/FDIS, future edition 1 of IEC 62052-41, prepared by IEC/TC 13 "Electrical energy measurement and control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62052-41:2022.

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) 2023-09-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-12-02

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**Endorsement notice**

The text of the International Standard IEC 62052-41:2022 was approved by CENELEC as a European Standard without any modification.

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

- IEC 61000-4-30:2015 NOTE Harmonized as EN 61000-4-30:2015 (not modified)
- IEC 61557-12:2018 NOTE Harmonized as EN IEC 61557-12:2022 (not modified)
- IEC 61869 (series) NOTE Harmonized as EN IEC 61869 (series)
- IEC 62586-1:2017 NOTE Harmonized as EN 62586-1:2017 (not modified)
- IEC 62586-2:2017 NOTE Harmonized as EN 62586-2:2017 (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.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62052-11	2020	Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment	EN IEC 62052-11	2021
			+ A11	2022
IEC 62053-21	2020	Electricity metering equipment - Particular requirements - Part 21: Static meters for AC active energy (classes 0,5, 1 and 2)	EN IEC 62053-21	2021
-	-		+ A11	2021
IEC 62053-22	2020	Electricity metering equipment - Particular requirements - Part 22: Static meters for AC active energy (classes 0,1S, 0,2S and 0,5S)	EN IEC 62053-22	2021
-	-		+ A11	2021
IEC 62053-23	2020	Electricity metering equipment - Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3)	EN IEC 62053-23	2021
-	-		+ A11	2021
IEC 62053-24	2020	Electricity metering equipment - Particular requirements - Part 24: Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3)	EN IEC 62053-24	2021
-	-		+ A11	2021
IEC 62053-41	2021	Electricity metering equipment - Particular requirements - Part 41: Static meters for DC energy (classes 0,5 and 1)	EN IEC 62053-41 <sup>1</sup>	—

<sup>1</sup> Under preparation. Stage at time of publication: FprEN IEC 62053-41:2022.





# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Electricity metering equipment – General requirements, tests and test conditions –  
Part 41: Energy registration methods and requirements for multi-energy and multi-rate meters**

**Équipement de comptage de l'électricité – Exigences générales, essais et conditions d'essai –  
Partie 41: Méthodes d'enregistrement de l'énergie et exigences relatives aux compteurs à tarifs multiples et aux compteurs à énergies multiples**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING EQUIPMENT –  
GENERAL REQUIREMENTS, TESTS AND TEST CONDITIONS –****Part 41: Energy registration methods and requirements  
for multi-energy and multi-rate meters**

## FOREWORD

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IEC 62052-41 has been prepared by IEC technical committee 13: Electrical energy measurement and control. It is an International Standard.

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

Draft	Report on voting
13/1869/FDIS	13/1873/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.

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.

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/standardsdev/publications](http://www.iec.ch/standardsdev/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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be:

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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 equip 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 2 years from the date of publication.

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[SIST EN IEC 62052-41:2023](https://standards.iteh.ai/catalog/standards/sist/08871281-d2b4-40e6-8d5b-0face3fa25fa/sist-en-iec-62052-41-2023)

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## INTRODUCTION

IEC 62052 series and IEC 62053 series define the physical, safety and metrological aspects of electricity meters. This document defines the requirements for multi-energy and multi-rate meters.

This part of IEC 62052 is to be used with relevant parts of the IEC 62052, IEC 62053, IEC 62055-31, IEC 62058 and IEC 62059 series:

- IEC 62052-11:2020, *Electricity metering equipment – General requirements, tests and test conditions – Part 11: Metering equipment*
- IEC 62052-31:2015, *Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 31: Product safety requirements and tests*
- IEC 62053-11:2003/AMD1:2016, *Electricity metering equipment (a.c.) – Particular requirements – Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)*
- IEC 62053-21:2020, *Electricity metering equipment – Particular requirements – Part 21: Static meters for AC active energy (classes 0,5, 1 and 2)*
- IEC 62053-22:2020, *Electricity metering equipment – Particular requirements – Part 22: Static meters for AC active energy (classes 0,1 S, 0,2 S and 0,5 S)*
- IEC 62053-23:2020, *Electricity metering equipment – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3)*
- IEC 62053-24:2020, *Electricity metering equipment – Particular requirements – Part 24: Static meters for fundamental component reactive energy (classes 0,5 S, 1 S, 1, 2 and 3)*
- IEC 62053-41:2021, *Electricity metering equipment – Particular requirements – Part 41: Static meters for DC energy (classes 0,5 and 1)*
- IEC 62055-31:2022, *Electricity metering – Payment systems – Part 31: Particular requirements – Static payment meters for active energy (classes 0,5, 1 and 2)*
- IEC 62058-11:2008, *Electricity metering equipment (AC) – Acceptance inspection – Part 11: General acceptance inspection methods*
- IEC 62058-21:2008, *Electricity metering equipment (AC) – Acceptance inspection – Part 21: Particular requirements for electromechanical meters for active energy (classes 0,5, 1 and 2)*
- IEC 62058-31:2008, *Electricity metering equipment (AC) – Acceptance inspection – Part 31: Particular requirements for static meters for active energy (classes 0,2 S, 0,5 S, 1 and 2)*
- IEC TR 62059-11:2002, *Electricity metering equipment – Dependability – Part 11: General concepts*
- IEC TR 62059-21:2002, *Electricity metering equipment – Dependability – Part 21: Collection of meter dependability data from the field*