

**SLOVENSKI STANDARD**  
**SIST EN 62053-21:2004//A1:2017**  
**01-april-2017**

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**Oprema za merjenje električne energije (izmenični tok) - Posebne zahteve - 21. del:  
Statični števcji delovne energije (razreda 1 in 2) - Dopolnilo A1**

Electricity metering equipment (a.c.) - Particular requirements - Part 21: Static meters for active energy (classes 1 and 2)

Wechselstrom-Elektrizitätszähler - Besondere Anforderungen - Teil 21: Elektronische Wirkverbrauchsähler der Genauigkeitsklassen 1 und 2

Équipement de comptage de l'électricité (c.a.) - Prescriptions particulières - Partie 21 : compteurs statiques d'énergie active (classes 1 et 2)

<https://standards.iteh.ai/catalog/standards/sist/2a2b50ec-2556-45a2-abcc-1fc2264fd4b/sist-en-62053-21-2004-a1-2017>

**Ta slovenski standard je istoveten z: EN 62053-21:2003/A1:2017**

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**ICS:**

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

**SIST EN 62053-21:2004//A1:2017**      **en**

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EUROPEAN STANDARD

**EN 62053-21:2003/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2017

ICS 17.220.20

English Version

Electricity metering equipment (a.c.) - Particular requirements -  
Part 21: Static meters for active energy (classes 1 and 2)  
(IEC 62053-21:2003/A1:2016)

Équipement de comptage de l'électricité (c.a.) -  
Prescriptions particulières - Partie 21 : compteurs statiques  
d'énergie active (classes 1 et 2)  
(IEC 62053-21:2003/A1:2016)

Wechselstrom-Elektrizitätszähler - Besondere  
Anforderungen - Teil 21: Elektronische  
Wirkverbrauchszähler der Genauigkeitsklassen 1 und 2  
(IEC 62053-21:2003/A1:2016)

This amendment A1 modifies the European Standard EN 62053-21:2003; it was approved by CENELEC on 2016-12-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

[SIST EN 62053-21:2004//A1:2017](https://standards.iteh.ai/catalog/standards/sist/2a2b50ec-2556-45a2-abcc-62053-21-2003-a1-2016)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 62053-21:2003/A1:2017****European foreword**

The text of document 13/1699/FDIS, future IEC 62053-21:2003/A1, prepared by IEC/TC 13 "Electrical energy measurement, tariff- and load control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62053-21:2003/A1:2017.

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) 2017-09-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-23

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

**Endorsement notice**

The text of the International Standard IEC 62053-21:2003/A1:2016 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 standards indicated:

IEC 62058-11:2008	NOTE Harmonized as EN 62058-11:2010. <a href="https://standards.iteh.ai/catalog/standards/sist/2a2b50ec-2556-45a2-abcc-1fcb22107b/sist-62053-21:2003-a1:2017">https://standards.iteh.ai/catalog/standards/sist/2a2b50ec-2556-45a2-abcc-1fcb22107b/sist-62053-21:2003-a1:2017</a>
IEC 62058-31:2008	NOTE Harmonized as EN 62058-31:2010.

## Annex ZA (normative)

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

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.

NOTE 1 When 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).

#### **Delete:**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60736	1982	Testing equipment for electrical energy meters	-	-
IEC 61358	1996	Acceptance inspection for direct connected - alternating current static watt-hour meters for active energy (classes 1 and 2)		-

#### **Addition:**

IEC 62052-11	2003	Electricity metering equipment (AC) - General requirements, tests and test conditions -- Part 11: Metering equipment	EN 62052-11	2003
+ A1	2016		+ A1	2017
IEC 62052-31	2015	Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 31: Product safety requirements and tests	EN 62052-31	2016

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IEC 62053-21

Edition 1.0 2016-11

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

Electricity metering equipment (a.c.) – Particular requirements –  
Part 21: Static meters for active energy (classes 1 and 2)

Équipement de comptage de l'électricité (c.a.) – Prescriptions particulières –  
Partie 21: Compteurs statiques d'énergie active (classes 1 et 2)

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ELECTROTECHNIQUE  
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## FOREWORD

This amendment has been prepared by IEC technical committee 13: Electrical energy measurement and control.

The text of this amendment is based on the following documents:

FDIS	Report on voting
13/1699/FDIS	13/1713/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

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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.

<https://standards.iteh.ai/catalog/standards/sist/2a2b50ec-2556-45a2-abcc-30127e611e1c/iec-62053-21-2003-amd1-2016>

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.

## INTRODUCTION TO AMENDMENT 1

The purpose of this amendment is to identify and remove all safety related requirements and tests of IEC 62053-21:2003 that are replaced and extended by the complete set of requirements and tests in IEC 62052-31:2015.

**Introduction**

*Add the following items to the list of standards:*

IEC 62052-11:2003, *Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 11: Metering equipment*  
Amendment 1 (2016)

IEC 62052-31:2015, *Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 31: Product safety requirements and tests*



IEC 62053-21:2003/AMD1:2016  
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IEC 62053-23:2003, *Electricity metering equipment (AC) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3)*

IEC 62053-24:2014, *Electricity metering equipment (a.c.) – Particular requirements – Part 24: Static meters for reactive energy at fundamental frequency (classes 0,5 S, 1S and 1)*

## 1 Scope

*After the dashed items list, add the following:*

The safety aspect is covered by IEC 62052-31:2015.

*Replace the penultimate paragraph by the following:*

Regarding acceptance tests, see IEC 62058-11:2008 and IEC 62058-31:2008.

## 2 Normative references

*Remove the following standards:*

IEC 60736:1982, *Testing equipment for electrical energy meters*

IEC 61358:1996, *Acceptance inspection for direct connected alternating current static watt-hour meters for active energy (classes 1 and 2)*

*Add the following standards:*

[SIST EN 62053-21:2004//A1:2017](https://standards.iteh.ai/catalog/standards/sist/2a2b50ec-2556-45a2-abcc-11bb11111111/iec-62053-21-2003-amd1-2016)

IEC 62052-11:2003, *Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 11: Metering equipment*  
Amendment 1 (2016)

IEC 62052-31:2015, *Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 31: Product safety requirements and tests*

### 7.2 Influence of short-time overcurrents

*At the end of the subclause, add the following:*

In addition to the existing requirements and tests covering the metrology aspect, safety related requirements specified in IEC 62052-31:2015, 6.9.8 and tests specified in 6.10.5 and 6.10.6 apply.

### 7.3 Influence of self-heating

*Replace the last paragraph with the following:*

Test cables shall be as specified in IEC 62052-31:2015, 4.3.2.11.

### 7.4 AC voltage test

*Replace the existing subclause by the following:*

IEC 62052-31:2015, 6.10.4.3.4 applies.