



BSI Standards Publication

## Electricity metering (AC) - Tariff and load control

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Part 21: Particular requirements for time switches (IEC 62054-21:2004)

## National foreword

This British Standard is the UK implementation of EN 62054-21:2004+A1:2017. It is identical to IEC 62054-21:2004, incorporating amendment 1:2017. It supersedes BS EN 62054-21:2004, which is withdrawn.

The text of IEC amendment 1:2017 and IEC corrigendum March 2018 has been provided in its entirety at the beginning of this document. BSI's policy of providing consolidated content remains unchanged; however, in the interest of expediency, in this instance BSI have chosen to collate the relevant content at the beginning of this document.

The UK participation in its preparation was entrusted to Technical Committee PEL/13, Electricity Meters.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Published by BSI Standards Limited 2017

ISBN 978 0 580 91279 5

ICS 91.140.50

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 12 December 2004.

### Amendments/corrigenda issued since publication

Date	Text affected
12 December 2005	Correction to supersession details
30 April 2018	Implementation of IEC amendment 2017 with CENELEC endorsement 2018
30 April 2018	Implementation of IEC corrigendum March 2018

EUROPEAN STANDARD

**EN 62054-21**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2004

ICS 91.140.50

Partially supersedes EN 61038:1992 + A1:1996 + A2:1998

English version

**Electricity metering (a.c.) –  
Tariff and load control  
Part 21: Particular requirements for time switches  
(IEC 62054-21:2004)**

Equipment de comptage de l'électricité  
(c.a.) –  
Tarification et contrôle de charge  
Partie 21: Prescriptions particulières  
pour horloges de tarification  
(CEI 62054-21:2004)

Wechselstrom-Elektrizitätszähler –  
Tarif- und Laststeuerung  
Teil 21: Besondere Anforderungen  
an Schaltuhren  
(IEC 62054-21:2004)

This European Standard was approved by CENELEC on 2004-07-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

# CENELEC

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 13/1308/FDIS, future edition 1 of IEC 62054-21, prepared by IEC TC 13, Equipment for electrical energy measurement and load control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62054-21 on 2004-07-06.

This standard, in conjunction with EN 62052-21, supersedes EN 61038:1992 + A1:1996 + A2:1998.

This standard is to be used in conjunction with EN 62052-21 and the relevant parts of the EN 62059 series.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2005-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-07-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive(s). See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62054-21:2004 was approved by CENELEC as a European Standard without any modification.

### Corrigendum to text of IEC 62054-21:2004

In subclause 7.6.4,

- **replace** "Field strength of the unmodulated signal 10 V/m" by "At field strength of 10 V/m (measured according to EN 61000-4-3)".
  - **replace** "Field strength of the unmodulated signal 30 V/m" by "At field strength of 30 V/m (measured according to EN 61000-4-3)".
-

## Annex ZA (normative)

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

The following referenced documents are indispensable for the application 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 Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62052-21	2004	Electricity metering equipment (AC) - General requirements, tests and test conditions Part 21: Tariff and load control equipment	EN 62052-21	- <sup>1)</sup>

## Annex ZZ (informative)

### Coverage of Essential Requirements of EC Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant essential requirements as given in Article 4 of the EC Directive 89/336/EEC.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive[s] concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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<sup>1)</sup> To be published.

ICS 91.140.50

English Version

**Electricity metering (AC) - Tariff and load control -  
Part 21: Particular requirements for time switches  
(IEC 62054-21:2004/A1:2017)**

Équipement de comptage d'électricité (C.A.) - Tarification et  
contrôle de charge - Partie 21: Exigences particulières pour  
les horloges de tarification  
(IEC 62054-21:2004/A1:2017)

Wechselstrom-Elektrizitätszähler - Tarif- und Laststeuerung  
- Teil 21: Besondere Anforderungen an Schaltuhren  
(IEC 62054-21:2004/A1:2017)

This amendment A1 modifies the European Standard EN 62054-21:2004; it was approved by CENELEC on 2017-03-06. 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.

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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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**

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**EN 62054-21:2004/A1:2017****European foreword**

The text of document 13/1705A/FDIS, future IEC 62054-21:2004/A1, prepared by IEC/TC 13 "Electrical energy measurement and control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62054-21:2004/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) 2017-12-06
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-03-06

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

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

**Endorsement notice**

The text of the International Standard IEC 62054-21:2004/A1:2017 was approved by CENELEC as a European Standard without any modification.

## 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)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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***Add to Annex ZA of EN 62054-21:2004 the following new references:***

IEC 62052-21	2004	Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 21: Tariff and load control equipment	EN 62052-21	2004
+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





# IEC 62054-21

Edition 1.0 2017-01

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

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**Electricity metering (AC) – Tariff and load control –  
Part 21: Particular requirements for time switches**

**Équipement de comptage d'électricité (C.A.) – Tarification et contrôle  
de charge –  
Partie 21: Exigences particulières pour les horloges de tarification**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
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ICS 91.140.50

ISBN 978-2-8322-3814-1

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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
13/1705A/FDIS	13/1728/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.

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 4 years from the date of publication.

The contents of the corrigendum of March 2018 have been included in this copy.

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## INTRODUCTION TO AMENDMENT 1

The purpose of this amendment is to identify and remove all safety related requirements and tests of IEC 62054-21:2004 that are replaced and extended by the complete set of requirements and tests in IEC 62052-31:2015.

### Introduction

*Delete the first sentence.*

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

IEC 62052-21:2004, *Electricity metering equipment (AC) – General requirements, tests and test conditions –Part 21: Tariff and load control 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*

## 1 Scope

*Add, as the penultimate paragraph, the following:*

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

## 2 Normative references

*Add the following standards:*

IEC 62052-21:2004, *Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 21: Tariff and load control 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*

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