

**SLOVENSKI STANDARD  
SIST EN IEC 60051-5:2018****01-junij-2018****Nadomešča:  
SIST EN 60051-5:1995**

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**Neposredni kazalni analogni električni merilni instrumenti in njihov pribor - 5. del:  
Posebne zahteve za merilnike faze, merilnike faktorja moči in za sinhroskope (IEC  
60051-5:2017)**

Direct acting indicating analogue electrical measuring instruments and their accessories  
- Part 5: Special requirements for phase meters, power factor meters and synchrosopes  
(IEC 60051-5:2017)

**iTeh STANDARD PREVIEW**

Direkt wirkende anzeigende elektrische Meßgeräte und ihr Zubehör - Meßgeräte mit  
Skalenanzeige - Teil 5: Spezielle Anforderungen für Phasenverschiebungswinkel-  
Meßgeräte, Leistungsfaktor- Meßgeräte und Synchronoskope (IEC 60051-5:2017)

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Appareils mesureurs électriques indicateurs analogiques à action directe et leurs  
accessoires - Partie 5: Prescriptions particulières pour les phasemètres, les indicateurs  
de facteur de puissance et les synchronoscopes (IEC 60051-5:2017)

**Ta slovenski standard je istoveten z: EN IEC 60051-5:2018****ICS:**

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
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**SIST EN IEC 60051-5:2018****en,fr,de**

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EUROPEAN STANDARD

**EN IEC 60051-5**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2018

ICS 17.220.20

Supersedes EN 60051-5:1989

English Version

Direct acting indicating analogue electrical measuring  
instruments and their accessories - Part 5: Special requirements  
for phase meters, power factor meters and synchrosopes  
(IEC 60051-5:2017)

Appareils mesureurs électriques indicateurs analogiques à  
action directe et leurs accessoires - Partie 5: Exigences  
particulières pour les phasemètres, les appareils de mesure  
de facteur de puissance et les synchrosopes  
(IEC 60051-5:2017)

Direkt wirkende anzeigende elektrische Meßgeräte und ihr  
Zubehör - Meßgeräte mit Skalenanzeige - Teil 5: Spezielle  
Anforderungen für Phasenverschiebungswinkel-Meßgeräte,  
Leistungsfaktor- Meßgeräte und Synchronoskope  
(IEC 60051-5:2017)

This European Standard was approved by CENELEC on 2018-01-19. 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.

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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 60051-5:2018 (E)****European foreword**

The text of document 85/581/CDV, future edition 5 of IEC 60051-5, prepared by IEC/TC 85 "Measuring equipment for electrical and electromagnetic quantities" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60051-5:2018.

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) 2018-10-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-01-19

This document supersedes EN 60051-5:1989.

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directives.

For the relationship with EU Directives see informative Annex ZZ, which is an integral part of this document.

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**Endorsement notice**

The text of the International Standard IEC 60051-5:2017 was approved by CENELEC as a European Standard without any modification. [standards.iteh.ai/catalog/standards/sist/ce12b68d-6e1d-459e-9afd-ae67a105227c/sist-en-iec-60051-5-2018](https://standards.iteh.ai/catalog/standards/sist/ce12b68d-6e1d-459e-9afd-ae67a105227c/sist-en-iec-60051-5-2018)

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60051-9<sup>1</sup> NOTE Harmonized as EN 60051-9<sup>2</sup>.

<sup>1</sup> To be published. Stage at the time of publication: IEC CDV 60051-9:2018.

<sup>2</sup> To be published. Stage at the time of publication: prEN 60051-9:2018.

## 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 60051-1	2016	Direct acting indicating analogue electrical measuring instruments and their accessories – Part 1: Definitions and general requirements common to all parts	EN 60051-1	2017

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IEC 60051-5

Edition 5.0 2017-12

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Direct acting indicating analogue electrical measuring instruments and their accessories –  
Part 5: Special requirements for phase meters, power factor meters and synchrosopes**

SIST EN IEC 60051-5:2018

<https://standards.iteh.ai/catalog/standards/sist/ce12b68d-6e1d-459e-9afd-171657160515-2018>

**Appareils mesureurs électriques indicateurs analogiques à action directe et leurs accessoires –**

**Partie 5: Exigences particulières pour les phasemètres, les appareils de mesure de facteur de puissance et les synchronoscopes**

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ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIRECT ACTING INDICATING ANALOGUE ELECTRICAL  
MEASURING INSTRUMENTS AND THEIR ACCESSORIES –****Part 5: Special requirements for phase meters,  
power factor meters and synchrosopes**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60051-5 has been prepared by IEC technical committee 85: Measuring equipment for electrical and electromagnetic quantities.

This fifth edition cancels and replaces the fourth edition published in 1985. This edition constitutes a technical revision.

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

- a) updating of content in line with new editions of IEC 60051-1 and IEC 60051-9;
- b) addition of Annex A to specify the nonconformity classification of test items.

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

CDV	Report on voting
85/581/CDV	85/581A/RVC

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

This International Standard is to be used in conjunction with IEC 60051-1:2016.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60051 series, published under the general title *Direct acting indicating analogue electrical measuring instruments and their accessories*, 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 "<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.

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