

<b>STN</b>	<b>Elektrické meracie prístroje priamo pôsobiace ukazovacie analógové a ich príslušenstvo Časť 6: Osobitné požiadavky na ohmmetre (merače impedancie) a merače vodivosti</b>	<b>STN EN IEC 60051-6</b>  35 6203
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Direct acting indicating analogue electrical measuring instruments and their accessories - Part 6: Special requirements for ohmmeters (impedance meters) and conductance meters

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/18

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**EN IEC 60051-6**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Direct acting indicating analogue electrical measuring  
instruments and their accessories - Part 6: Special requirements  
for ohmmeters (impedance meters) and conductance meters  
(IEC 60051-6:2017)

Appareils mesureurs électriques indicateurs analogiques à  
action directe et leurs accessoires - Partie 6: Exigences  
particulières pour les ohmmètres (les impédancemètres) et  
les conductancemètres  
(IEC 60051-6:2017)

Direkt wirkende anzeigende elektrische Meßgeräte und  
ihr Zubehör - Meßgeräte mit Skalenanzeige - Teil 6:  
Spezielle Anforderungen für Widerstands-  
(Scheinwiderstands-) und Leitfähigkeits-Meßgeräte  
(IEC 60051-6:2017)

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

**EN IEC 60051-6:2018 (E)****European foreword**

The text of document 85/559/CDV, future edition 5 of IEC 60051-6, 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 60051-6:2018.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-01-19

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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>.

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<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**

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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 – Part1: Definitions and general requirements common to all parts	EN 60051-1	2017



IEC 60051-6

Edition 5.0 2017-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Direct acting indicating analogue electrical measuring instruments and their accessories –  
Part 6: Special requirements for ohmmeters (impedance meters) and conductance meters**

**Appareils mesureurs électriques indicateurs analogiques à action directe et leurs accessoires –  
Partie 6: Exigences particulières pour les ohmmètres (les impédancemètres) et les conductancemètres**





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IEC 60051-6

Edition 5.0 2017-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Direct acting indicating analogue electrical measuring instruments and their accessories –**

**Part 6: Special requirements for ohmmeters (impedance meters) and conductance meters**

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

**Partie 6: Exigences particulières pour les ohmmètres (les impédancemètres) et les conductancemètres**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **DIRECT ACTING INDICATING ANALOGUE ELECTRICAL MEASURING INSTRUMENTS AND THEIR ACCESSORIES –**

#### **Part 6: Special requirements for ohmmeters (impedance meters) and conductance meters**

#### FOREWORD

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International Standard IEC 60051-6 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 1984. 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
85/559/CDV	85/582A/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.

## INTRODUCTION

IEC 60051 is published in separate parts according to the following structure and under the general title *Direct acting indicating analogue electrical measuring instruments and their accessories*.

Part 1: Definitions and general requirements common to all parts

Part 2: Special requirements for ammeters and voltmeters

Part 3: Special requirements for wattmeters and varmeters

Part 4: Special requirements for frequency meters

Part 5: Special requirements for phase meters, power factor meters and synchrosopes

Part 6: Special requirements for ohmmeters (impedance meters) and conductance meters

Part 7: Special requirements for multi-function instruments

Part 8: Special requirements for accessories

Part 9: Recommended test methods

IEC 60051-6 is not complete in itself and is read in conjunction with IEC 60051-1.

All of these parts are arranged in the same format and a standard relationship between subject and clause number is maintained throughout these parts. This arrangement will assist the reader of IEC 60051 to distinguish information relating to the different types of instruments.

## **DIRECT ACTING INDICATING ANALOGUE ELECTRICAL MEASURING INSTRUMENTS AND THEIR ACCESSORIES –**

### **Part 6: Special requirements for ohmmeters (impedance meters) and conductance meters**

#### **1 Scope**

This part of IEC 60051 applies to direct acting indicating analogue electrical measuring ohmmeters (impedance meters) and conductance meters.

This document also applies to some non-interchangeable accessories of ohmmeters (impedance meters) and conductance meters.

This document also applies to a direct acting indicating electrical measuring instrument whose scale marks do not correspond directly to its electrical input quantity, provided that the relationship between them is known.

This document also applies to electronic devices of ohmmeters (impedance meters) and conductance meters in their measuring and/or auxiliary circuits.

This document does not apply to insulation ohmmeters, grounding ohmmeters and external commercial power ohmmeters (impedance meters) and conductance meters.

#### **2 Normative references**

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.

IEC 60051-1:2016, *Direct acting indicating analogue electrical measuring instruments and their accessories – Part1: Definitions and general requirements common to all parts*

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