

STN	Elektrická bezpečnosť v nízkonapäťových rozvodných sieťach so striedavým napätím do 1 000 V a s jednosmerným napätím do 1 500 V Zariadenia na skúšanie, meranie alebo sledovanie činnosti prostriedkov ochrany Časť 17: Bezkontaktné napäťové indikátory pre striedavé napätie	STN EN IEC 61557-17 35 6230
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Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 17: Non-contact AC voltage indicators

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. 02/22

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EUROPEAN STANDARD

EN IEC 61557-17

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2021

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English Version

**Electrical safety in low voltage distribution systems up to 1 000 V
AC and 1 500 V DC - Equipment for testing, measuring or
monitoring of protective measures - Part 17: Non-contact AC
voltage indicators
(IEC 61557-17:2021)**

Sécurité électrique dans les réseaux de distribution basse
tension au plus égale à 1 000 V C.A. et 1 500 V C.C. -
Dispositifs de contrôle, de mesure ou de surveillance de
mesures de protection - Partie 17: Indicateurs de tension
alternative sans contact
(IEC 61557-17:2021)

Elektrische Sicherheit in Niederspannungsnetzen bis AC 1
000 V und DC 1 500 V - Geräte zum Prüfen, Messen oder
Überwachen von Schutzmaßnahmen - Teil 17:
Berührungslose Spannungsanzeiger
(IEC 61557-17:2021)

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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 61557-17:2021 (E)**European foreword**

The text of document 85/790/FDIS, future edition 1 of IEC 61557-17, 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 61557-17:2021.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-09-15
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61010-1:2010 NOTE Harmonized as EN 61010-1:2010 (not modified)

IEC 61243-3 NOTE Harmonized as EN 61243-3

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61010-031	2015	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test	EN 61010-031	2015
/AMD1	2018		/A1	2021
IEC 61326-1	2020	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN IEC 61326-1	2021
IEC 61557-1	2019	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements	EN IEC 61557-1	2021



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures –

Part 17: Non-contact AC voltage indicators

Sécurité électrique dans les réseaux de distribution basse tension au plus égale à 1 000 V C.A. et 1 500 V C.C. – Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection –

Partie 17: Indicateurs de tension alternative sans contact



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Part 17: Non-contact AC voltage indicators

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Partie 17: Indicateurs de tension alternative sans contact

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS
UP TO 1 000 V AC AND 1 500 V DC – EQUIPMENT FOR TESTING,
MEASURING OR MONITORING OF PROTECTIVE MEASURES –**

Part 17: Non-contact AC voltage indicators

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

FDIS	Report on voting
85/790/FDIS	85/803/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 of the IEC 61557 series, published under the general title *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures*, can be found on the IEC website.

This International Standard is to be used in conjunction with IEC 61557-1:2019.

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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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

INTRODUCTION

The purpose of this document is to specify the minimum construction and performance requirements of the non-contact AC voltage indicator in normal use and in case of reasonably foreseeable misuse to reduce the risk of hazard during and after the voltage test.

The most reasonably foreseeable misuse of the non-contact AC voltage indicator is that the operator uses it to check the absence of hazardous voltages followed by an unsafe interpretation of the negative indication with respect to the current situation.

The assessment of the absence of hazardous live voltage is performed by using a 2-pole low-voltage detector in compliance with IEC 61243-3.

ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1 000 V AC AND 1 500 V DC – EQUIPMENT FOR TESTING, MEASURING OR MONITORING OF PROTECTIVE MEASURES –

Part 17: Non-contact AC voltage indicators

1 Scope

This part of IEC 61557 defines minimum performance requirements for non-contact AC voltage indicators to reduce the risk of electric shock for the testing person and bystanders caused by the wrong interpretation of the indication.

Products designed and manufactured in accordance with this document are for use by (electrically) skilled persons only. Non-contact AC voltage indicators are not designed for testing the absence of the operating voltage.

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.

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IEC 61010-031:2015/AMD1:2018¹

IEC 61326-1:2020, *Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements*

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