

**SLOVENSKI STANDARD  
SIST EN IEC 61526:2026****01-junij-2026****Nadomešča:  
SIST EN 61526:2013**

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**Instrumenti za zaščito pred sevanjem - Merjenje osebnih ekvivalentnih doz za rentgenska (X), gama, nevtronska in beta sevanja - Aktivni osebni dozimetri (IEC 61526:2024)**

Radiation protection instrumentation - Measurement of personal dose equivalents for X, gamma, neutron and beta radiations - Active personal dosimeters (IEC 61526:2024)

Strahlenschutz-Messgeräte - Messung der Personen-Äquivalentdosen für Röntgen-, Gamma-, Neutronen- und Betastrahlung - Direkt ablesbare Personendosimeter (IEC 61526:2024)

Instrumentation pour la radioprotection - Mesure des équivalents de dose individuels pour les rayonnements X, gamma, neutron et bêta - Dosimètres individuels actifs (IEC 61526:2024)

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13.280	Varstvo pred sevanjem	Radiation protection
17.240	Merjenje sevanja	Radiation measurements

**SIST EN IEC 61526:2026 en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 61526**

April 2026

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English Version

**Radiation protection instrumentation - Measurement of personal  
dose equivalents for X, gamma, neutron and beta radiations -  
Active personal dosimeters  
(IEC 61526:2024)**

Instrumentation pour la radioprotection - Mesure des  
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Strahlenschutz-Messgeräte - Messung der Personen-  
Äquivalentdosen für Röntgen-, Gamma-, Neutronen- und  
Betastrahlung - Direkt ablesbare Personendosimeter  
(IEC 61526:2024)

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Ref. No. EN IEC 61526:2026 E

## EN IEC 61526:2026 (E)

### European foreword

This document (EN IEC 61526:2026) consists of the text of IEC 61526:2024 prepared by IEC/SC 45B "Radiation protection instrumentation" of IEC/TC 45 "Nuclear instrumentation".

The following dates are fixed:

- latest date by which this document has to be (dop) 2027-04-30 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting (dow) 2029-04-30 with this document have to be withdrawn

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

IEC 60846-1 NOTE Approved as EN 60846-1

## 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.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-395	2014	International Electrotechnical Vocabulary - Part 395: Nuclear instrumentation: Physical phenomena, basic concepts, instruments, systems, equipment and detectors	-	-
+ A1	2016		-	-
+ A2	2020		-	-
IEC 60068-2-31	2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	2008
IEC 60086-1	2021	Primary batteries - Part 1: General	EN IEC 60086-1	2021
IEC 60086-2	2021	Primary batteries - Part 2: Physical and electrical specifications	EN IEC 60086-2	2021
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ AC	1993
+ A1	1999		+ A1	2000
+ A2	2013		+ A2	2013
IEC 60904-3	-	Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data	EN IEC 60904-3	-
IEC 61000-4-2	-	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN IEC 61000-4-2	-
IEC 61000-4-3	-	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN IEC 61000-4-3	-
IEC 61000-4-4	-	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	-

**EN IEC 61526:2026 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-5	-	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	-
IEC 61000-4-6	-	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN IEC 61000-4-6	-
IEC 61000-4-8	-	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8	-
IEC 61000-4-11	-	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	EN IEC 61000-4-11	-
IEC 61000-6-2	-	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	EN IEC 61000-6-2	-
IEC 61187	1993	Electrical and electronic measuring equipment - Documentation	-	-
IEC 62387	2020	Radiation protection instrumentation - Dosimetry systems with integrating passive detectors for individual, workplace and environmental monitoring of photon and beta radiation	EN IEC 62387	2022
IEC/TR 62461	2015	Radiation protection instrumentation - Determination of uncertainty in measurement	CLC IEC/TR 62461	2019
ISO/IEC Guide 98-3	2008	Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	-	-
ISO/IEC Guide 98-3:2008/Suppl.1	2008	Propagation of distributions using a Monte Carlo method and Corr.1 (2009)	-	-
ISO 4037-1	2019	Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 1: Radiation characteristics and production methods	EN ISO 4037-1	2021
ISO 4037-2	2019	Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 2: Dosimetry for radiation protection over the energy ranges from 8 keV to 1,3 MeV and 4 MeV to 9 MeV	EN ISO 4037-2	2021

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 4037-3	2019	Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 3: Calibration of area and personal dosimeters and the measurement of their response as a function of energy and angle of incidence	EN ISO 4037-3	2021
ISO 4037-4	2019	Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 4: Calibration of area and personal dosimeters in low energy X reference radiation fields	EN ISO 4037-4	2021
ISO 6980-1	2023	Nuclear energy - Reference beta-particle radiation - Part 1: Methods of production	EN ISO 6980-1	2025
ISO 6980-2	2023	Nuclear energy - Reference beta-particle radiation - Part 2: Calibration fundamentals related to basic quantities characterizing the radiation field	EN ISO 6980-2	2025
ISO 6980-3	2023	Nuclear energy - Reference beta-particle radiation – Part 3: Calibration of area and personal dosimeters and the determination of their response as a function of beta radiation energy and angle of incidence	EN ISO 6980-3	2025
ISO 8529-1	2021	Neutron reference radiations fields - Part 1: Characteristics and methods of production	EN ISO 8529-1	2023
ISO 8529-2	2000	Reference neutron radiations - Part 2: Calibration fundamentals of radiation protection devices related to the basic quantities characterizing the radiation field	-	-
ISO 8529-3	2023	Neutron reference radiation fields - Part 3: Calibration of area and personal dosimeters and determination of their response as a function of neutron energy and angle of incidence	EN ISO 8529-3	2024
ISO 12789-1	-	Reference radiation fields - Simulated workplace neutron fields - Part 1: Characteristics and methods of production	-	-
ISO 12789-2	-	Reference radiation fields - Simulated workplace neutron fields - Part 2: Calibration fundamentals related to the basic quantities	-	-
ISO 21909-1	2021	Passive neutron dosimetry systems - Part 1: Performance and test requirements for personal dosimetry	EN ISO 21909-1	2023
ISO 80000-10	2019	Quantities and units - Part 10: Atomic and nuclear physics	EN ISO 80000-10	2019

**EN IEC 61526:2026 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ICRU Report 51	-	Quantities and units in radiation protection dosimetry	-	-
ANSI N42.17A	-	American national standard for performance specifications for health physics instrumentation - Portable instrumentation for use in normal environmental conditions	-	-

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Edition 4.0 2024-03

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Radiation protection instrumentation – Measurement of personal dose equivalents for X, gamma, neutron and beta radiations – Active personal dosimeters**

**Instrumentation pour la radioprotection – Mesure des équivalents de dose individuels pour les rayonnements X, gamma, neutron et bêta – Dosimètres individuels actifs**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIATION PROTECTION INSTRUMENTATION –  
MEASUREMENT OF PERSONAL DOSE EQUIVALENTS FOR X,  
GAMMA, NEUTRON AND BETA RADIATIONS –  
ACTIVE PERSONAL DOSEMETERS**

## 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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IEC 61526 has been prepared by subcommittee 45B: Radiation protection instrumentation, of IEC technical committee 45: Nuclear instrumentation. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2010. This edition constitutes a technical revision.

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

- a) Modification of the title;
- b) Inclusion of the measurement quantity for the dose in the lens of the eye,  $H_p(3)$ ;
- c) Inclusion of measurement quantity for dose in the skin and extremities,  $H_p(0,07)$ ;