

SLOVENSKI STANDARD SIST EN 62363:2011

01-september-2011

Instrumenti za zaščito pred sevanjem - Prenosni merilniki in monitorji fotonske kontaminacije (IEC 62363:2008, spremenjen)

Radiation protection instrumentation - Portable photon contamination meters and monitors (IEC 62363:2008, modified)

Strahlenschutz-Messgeräte - Tragbare Oberflächenkontaminations- Messgeräte und - Überwachungsgeräte für Photonenstrahlung (IEC 62363:2008, modifiziert)

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Instrumentation pour la radioprotection - Appareils portables de mesure et de surveillance de la contamination par des photons (CEI 62363:2008, modifiée)

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Ta slovenski standard je istoveten z: EN 62363-2011

ICS:

13.280 Varstvo pred sevanjem Radiation protection

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EUROPEAN STANDARD

EN 62363

NORME EUROPÉENNE EUROPÄISCHE NORM

June 2011

ICS 13.280

English version

Radiation protection instrumentation - Portable photon contamination meters and monitors

(IEC 62363:2008, modified)

Instrumentation pour la radioprotection -Appareils portables de mesure et de surveillance de la contamination par des photons (CEI 62363:2008, modifiée) Strahlenschutz-Messgeräte -Tragbare Oberflächenkontaminations-Messgeräte und -Überwachungsgeräte für Photonenstrahlung (IEC 62363:2008, modifiziert)

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This European Standard was approved by CENELEC on 2011-06-20. 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 3.2011

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.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of the International Standard IEC 62363:2008, prepared by SC 45B, Radiation protection instrumentation, of IEC TC 45, Nuclear instrumentation, together with the common modifications prepared by the Technical Committee CENELEC TC 45B, Radiation protection instrumentation, was submitted to the formal vote and was approved by CENELEC as EN 62363 on 2011-06-20.

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) 2012-06-20

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2014-06-20

Annex ZA has been added by CENELEC.

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<u>SIST EN 62363:2011</u> https://standards.iteh.ai/catalog/standards/sist/1e0d11db-bea7-4cec-a38e-719e0183f8c2/sist-en-62363-2011 -3-EN 62363:2011

Endorsement notice

The text of the International Standard IEC 62363:2008 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

- 5 **General characteristics**
- 5.1 Classification

Last line, replace "Less than 10 keV" with "Less than 20 keV"

- 6 General test procedures
- 6.3 Reference radionuclides

Last line, replace "Less than 10 keV" with "Less than 20 keV"

- **Radiation characteristics** 8
- Detector profile STANDARD PREVIEW 8.2
- (standards.iteh.ai) 8.2.2 Method of test

In the first paragraph, replace "concentrically" with "centrally"

SIST EN 62363:2011 Insert as second paragraph: SIST EN 020022011
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"In the case of a rectangular detector three profiles shall be taken. One from the centre in the direction normal to the shortest side of the sensitive area of the detector, another from the centre in the direction normal to the longest side of the sensitive area of the detector and one from the centre in the direction of a corner of the sensitive area of the detector. In the case of square detectors the first above is unnecessary. In the case of a cylindrical detector there is only a single profile."

8.3 Surface emission rate response

8.3.1 General

First paragraph, last sentence: replace "with sensitive volumes in excess of 20 ml" with "with large sensitive volumes and/or areas"

Annex A

Replace title with "Limit distances for typical cylindrical detectors"

Replace in the title of the right column of Table A.1 "50 ml" with "2 ml"

Replace the second note in Table A.1 with "Be refers to a detector with a beryllium window of area 8 cm²."

Add the following new annex.

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>	EN/HD	<u>Year</u>
IEC 60050-393	2003	International Electrotechnology Vocabulary - Part 393: Nuclear instrumentation - Physical phenomena and basic concepts	-	-
IEC 60050-394	2007	International Electrotechnical Vocabulary - Part 394: Nuclear instrumentation - Instruments, systems, equipment and detectors	-	-
IEC 60068-2-27	- і Т	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 60086	series	Primary batteries	EN 60086	series
IEC 60325 (mod)	2002	Radiation protection instrumentation - Alpha, beta and alpha/beta (beta energy > 60 keV) contamination meters and monitors	EN 60325	2004
IEC 61187 (mod)	1993://s	Electrical and electronic measuring equipment con Documentation 3f8c2/sist-en-62363-2011	ßEN 61187 + corr. March	1994 1995
ISO 7503-1	1988	Evaluation of surface contamination - Part 1: Beta-emitters (maximum beta energy greater than 0,15 MeV) and alpha-emitters	-	-
ISO 7503-3	1996	Evaluation of surface contamination - Part 3: Isomeric transition and electron capture emitters, low energy beta-emitters (E bêtamax less than 0,15 MeV)	-	-
ISO 8769-2	1996	Reference sources for the calibration of surface contamination monitors - Part 2: Electrons of energy less than 0,15 MeV and photons of energy less than 1,5 MeV	-	-
ISO 11929-1	2000	Determination of the detection limit and decision threshold for ionizing radiation measurements - Part 1: Fundamentals and application to counting measurements without the influence of sample treatment	-	-
BIPM	1998	The international system of units (SI)	-	-



IEC 62363

Edition 1.0 2008-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radiation protection instrumentation A Portable photon contamination meters and monitors (standards.iteh.ai)

Instrumentation pour la radioprotection, <u>Appareils</u> portables de mesure et de surveillance de la contamination par des photons bea7-4cec-a38e-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIATION PROTECTION INSTRUMENTATION – PORTABLE PHOTON CONTAMINATION METERS AND MONITORS

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International Standard IEC 62363 has been prepared by subcommittee 45B: Radiation protection instrumentation, of IEC technical committee 45: Nuclear instrumentation.

This standard should be regarded as a complementary standard to IEC 60325, which is applicable to alpha and beta contamination monitoring assemblies.

The text of this standard is based on the following documents:

FDIS	Report on voting
45B/579/FDIS	45B/590/RVD

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

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

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The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site 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
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