
Instrumenti za zaščito pred sevanjem - Merilniki ekvivalentne doze v prostoru in/ali usmerjene ekvivalentne doze in/ali monitorji sevanja beta, rentgenskega sevanja in sevanja gama - 2. del: Prenosni merilni instrumenti z razširjenimi merilnimi območji za dozimetrijo v sili za odmerjanje beta in fotona ter hitrost odmerka (IEC 60846-2:2015)

Radiation protection instrumentation - Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation - Part 2: High range beta and photon dose and dose rate portable instruments for emergency radiation protection purposes (IEC 60846-2:2015)

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Strahlenschutz-Messgeräte - Umgebungs- und Richtungs-Äquivalentdosis(Leistungs)-Messgeräte und/oder Monitore für Beta-, Röntgen- und Gammastrahlung - Teil 2: Tragbare Messgeräte mit erweiterten Messbereichen zur Notfall-Strahlenschutzdosimetrie für Beta- und Photonendosis und -dosisleistung (IEC 60846-2:2015)

Instrumentation pour la radioprotection - Instruments pour la mesure et/ou la surveillance de l'équivalent de dose (ou du débit d'équivalent de dose) ambiant et/ou directionnel pour les rayonnements bêta, X et gamma - Partie 2: Instruments portables de grande étendue, pour la mesure de la dose et du débit de dose des rayonnements photoniques et bêta dans des situations d'urgence de radioprotection (IEC 60846-2:2015)

Ta slovenski standard je istoveten z: EN 60846-2:2018

ICS:

13.280 Varstvo pred sevanjem Radiation protection

SIST EN 60846-2:2018

en

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EUROPEAN STANDARD

EN 60846-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2018

ICS 13.280

English Version

**Radiation protection instrumentation - Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation - Part 2: High range beta and photon dose and dose rate portable instruments for emergency radiation protection purposes
(IEC 60846-2:2015 , modified)**

Instrumentation pour la radioprotection - Instruments pour la mesure et/ou la surveillance de l'équivalent de dose (ou du débit d'équivalent de dose) ambiant et/ou directionnel pour les rayonnements bêta, X et gamma - Partie 2: Instruments portables de grande étendue, pour la mesure de la dose et du débit de dose des rayonnements photoniques et bêta dans des situations d'urgence de radioprotection
(IEC 60846-2:2015 , modifiée)

Strahlenschutz-Messgeräte - Umgebungs- und Richtungs-Äquivalentdosis(leistungs)-Messgeräte und/oder Monitore für Beta-, Röntgen- und Gammastrahlung - Teil 2: Tragbare Messgeräte mit erweiterten Messbereichen zur Notfall-Strahlenschutzdosimetrie für Beta- und Photonendosis und -dosisleistung
(IEC 60846-2:2015 , modifiziert)

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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 60846-2:2018**European foreword**

This document (EN 60846-2:2018) consists of the text of IEC 60846-2:2015 prepared by SC 45B "Radiation protection instrumentation" of IEC/TC 45 "Nuclear instrumentation", together with the common modifications prepared by CLC/TC 45B "Radiation protection instrumentation".

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2018-10-13
at national level by publication of an identical national
standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2021-04-13
this document have to be withdrawn

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Endorsement notice

The text of the International Standard IEC 60846-2:2015 was approved by CENELEC as a European Standard with agreed common modifications.

COMMON MODIFICATIONS

All over the document

Replace all references to “IEC 60846-1:2009” with references to “EN 60846-1:2014”.

Replace all references to “IEC 60846-1” with references to “EN 60846-1”.

Modification to 8.4.3

Replace 8 times “1,5 MeV” with “1,33 MeV”.

Modification to Table 5

Replace 2 times “1,5 MeV” with “1,33 MeV”.

Modification to Table 6

Replace 3 times “1,5 MeV” with “1,33 MeV”.

Annexes

Add the following new Annex ZA:

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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 When 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.

Annex ZA of EN 60846-1:2014 applies except as follows:

Add

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| IEC 60325 (mod.) | 2002 | Radiation protection instrumentation - Alpha, beta and alpha/beta (beta energy > 60 keV) contamination meters and monitors | EN 60325 | 2004 |
| IEC 60846-1 (mod.) | 2009 | Radiation protection instrumentation - Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation – Part 1: Portable workplace and environmental meters and monitors | EN 60846-1 | 2014 |



IEC 60846-2

Edition 2.0 2015-12

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radiation protection instrumentation – Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation – Part 2: High range beta and photon dose and dose rate portable instruments for emergency radiation protection purposes

<https://standards.iteh.ai/catalog/standards/sist/3740828e-bf0e-48ec-82bd->

Instrumentation pour la radioprotection – Instruments pour la mesure et/ou la surveillance de l'équivalent de dose (ou du débit d'équivalent de dose) ambiant et/ou directionnel pour les rayonnements bêta, X et gamma – Partie 2: Instruments portables de grande étendue, pour la mesure de la dose et du débit de dose des rayonnements photoniques et bêta dans des situations d'urgence de radioprotection

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIATION PROTECTION INSTRUMENTATION –
AMBIENT AND/OR DIRECTIONAL DOSE EQUIVALENT (RATE)
METERS AND/OR MONITORS FOR BETA, X AND GAMMA RADIATION –****Part 2: High range beta and photon dose and dose rate portable
instruments for emergency radiation protection purposes**

FOREWORD

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International Standard IEC 60846-2 has been prepared by subcommittee 45B: Radiation protection instrumentation, of IEC technical committee 45: Nuclear instrumentation.

This second edition cancels and replaces the first edition of IEC 60846-2, issued in 2007, as well as IEC 61018, issued in 1991; it constitutes a technical revision.

The main technical change with regard to the previous edition consists of an update to the revised edition of IEC 60846-1:2009.

This International Standard IEC 60846-2 is to be used in conjunction with IEC 60846-1:2009. For the purposes of this standard, clauses/subclauses of IEC 60846-1:2009 apply, without modifications, except when stated. The modified clauses/subclauses are identified by the same number as in IEC 60846-1:2009 or, for new clauses/subclauses, by a higher number not used in IEC 60846-1:2009.

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

| FDIS | Report on voting |
|--------------|------------------|
| 45B/822/FDIS | 45B/834/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.

A list of all parts of the IEC 60846 series, under the general title *Radiation protection instrumentation – Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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
- amended.

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