



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 62387:2022/oprAA:2022**  
**01-julij-2022**

---

**Instrumenti za zaščito pred sevanjem - Sistemi za dozimetrijo z integriranimi pasivnimi detektorji za posamezno, delovno in okoljsko spremljanje fotonskega in beta sevanja - Dopolnilo AA**

Radiation protection instrumentation - Dosimetry systems with integrating passive detectors for individual, workplace and environmental monitoring of photon and beta radiation

**iTeh STANDARD**

Strahlenschutz-Messgeräte - Dosimetriesysteme mit integrierenden passiven Detektoren zur Personen-, Arbeitsplatz- und Umgebungsüberwachung auf Photonen- und Betastrahlung

**PREVIEW**  
**(standards.iteh.ai)**

Instrumentation pour la radioprotection - Systèmes dosimétriques avec détecteurs intégrés passifs pour le contrôle radiologique individuel, du lieu de travail et de l'environnement des rayonnements photoniques et bêta

**Instrumentation pour la radioprotection - Systèmes dosimétriques avec détecteurs intégrés passifs pour le contrôle radiologique individuel, du lieu de travail et de l'environnement des rayonnements photoniques et bêta**  
**prEN IEC 62387:2022/oprAA:2022**

**Ta slovenski standard je istoveten z: prEN IEC 62387/prAA**

---

**ICS:**

13.280      Varstvo pred sevanjem      Radiation protection

**oSIST prEN IEC 62387:2022/oprAA:2022 en**

**iTeh STANDARD  
PREVIEW  
(standards.iteh.ai)**

[oSIST prEN IEC 62387:2022/oprAA:2022](https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022)  
<https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN IEC 62387**

**prAA**

May 2022

ICS 13.280

English Version

## Radiation protection instrumentation - Dosimetry systems with integrating passive detectors for individual, workplace and environmental monitoring of photon and beta radiation

Instrumentation pour la radioprotection - Systèmes dosimétriques avec détecteurs intégrés passifs pour le contrôle radiologique individuel, du lieu de travail et de l'environnement des rayonnements photoniques et bêta

Strahlenschutz-Messgeräte - Dosimetriesysteme mit integrierenden passiven Detektoren zur Personen-, Arbeitsplatz- und Umgebungsüberwachung auf Photonen- und Betastrahlung

This draft amendment prAA, if approved, will modify the European Standard prEN IEC 62387; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2022-08-05.

It has been drawn up by CLC/TC 45B.

If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

This draft amendment was established by CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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**

<b>Contents</b>	<b>Page</b>
European foreword.....	3
1 Modification to the Scope.....	4
2 Modification to Clause 3.....	4
3 Modification to 9.2.....	4
4 Modification to 11.3.3.....	4
5 Modification to 11.5.1.2.....	4
6 Modification to 11.6.1.2.....	5
7 Modification to 11.7.1.2.....	5
8 Modification to 11.8.....	5
9 Modification to 13.7.3.....	5
10 Modification to 13.7.4.....	5
11 Modification to 14.4.....	5
12 Modification to 16.2.....	5
13 Modification to Table 10.....	5
14 Modification to Table 11.....	6
15 Modification to Table 12.....	6
16 Modification to Table 13.....	6
17 Modification to Table 14.....	6
18 Modification to Table 15.....	6
19 Modification to Table F.1.....	6

iTeh STANDARD  
PREVIEW  
(standards.iteh.ai)

oSIST prEN IEC 62387:2022/oprAA:2022  
<https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022>

## European foreword

This document (prEN IEC 62387:2022/prAA:2022) has been prepared by CLC/TC 45B "Radiation protection instrumentation".

This document is currently submitted to the Enquiry.

The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

EN IEC 62387:2022/prAA:2022 includes Common Modifications with respect to prEN IEC 62387:2022.

**iTeh STANDARD  
PREVIEW  
(standards.iteh.ai)**

[oSIST prEN IEC 62387:2022/oprAA:2022  
https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022](https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022)

## 1 Modification to the Scope

Modify Table 1 as follows:

**Replace** in line 3, the 4th column with “0,8 MeV for  $H_p(0,07)$  and 0,24 MeV to 0,8 MeV for  $H'(0,07)$ ”.

**Add** the following note below the current text:

NOTE Z Some tests can be performed also for dosimeters containing active parts. Those tests not matching this document are expected to be performed according to IEC 61526.

## 2 Modification to Clause 3

Modify the following definitions as follows:

### 3.8 detector radiation detector

**Delete** the first part of the definition which reads “apparatus or substance used to convert incident ionizing radiation energy into a signal suitable for indication and/or measurement an”.

**Add** at the end of the SOURCE indication “... and the Notes 1, 2 and 3 to entry have been added”.

### 3.14 indicated value indication

**Replace** in the SOURCE indication “Notes 1, 2 and 3” with “Notes 1 and 2”.

### 3.21 maximum rated measurement time (standards.iteh.ai)

**Add** a statement about OSL detectors to Note 2 to entry, so that it reads “... erasing the dose by heating (for TLDs) or by light (for OSL detectors), or a dose reset ...”.

### 3.29 reader dosimeter reader

[oSIST prEN IEC 62387:2022/oprAA:2022  
https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022](https://standards.iteh.ai/catalog/standards/sist/6f0ca5c6-94ac-43f3-931a-35af741f95a8/osist-pren-iec-62387-2022-opraa-2022)

**Delete** Note 2 to entry.

### 3.30 readout

**Replace** in Note 1 to entry “self-reading” with “electronic”.

## 3 Modification to 9.2

**Add** at the last but third dash at the end in the bracket “for  $H_p(0,07)$  dosimeters including the response to beta radiation with a mean energy of 0,24 MeV, see Table 10, line 10”.

## 4 Modification to 11.3.3

**Add** details of validity to the beginning of the fourth sentence of Note 1, so that it reads “For example, for  $w = 12$  and  $n = 5$ , a dosimetry system ...”.

**Add** details of validity to the first sentence of Note 2, so that it reads “... (method of test so far), then, for example for  $w = 12$  and  $n = 5$  and a dosimetry system ...”.

## 5 Modification to 11.5.1.2

Modify Table 3 as follows:

**Delete** the right cell of line 5 (90° test, indication for  $H^*(10)$  dosimeters) and **take** the entry “This test is given in 11.8” across both columns.

## 6 Modification to 11.6.1.2

*Modify Table 4 as follows:*

**Add** to the right cell of line 3 (75° test, indication for  $H'(3)$  dosimeters) after “For” the following text: “workplace dosimeters with  $75^\circ \leq \alpha_{\max}$  and for”.

**Delete** the right cell of line 5 (90° test, indication for  $H'(3)$  dosimeters) and **take** the entry “This test is given in 11.8” across both columns.

## 7 Modification to 11.7.1.2

*Modify Table 5 as follows:*

**Add** to the right cell of line 3 (75° test, indication for  $H'(0,07)$  dosimeters) after “For” the following text: “workplace dosimeters with  $75^\circ \leq \alpha_{\max}$  and for”.

**Delete** the right cell of line 5 (90° test, indication for  $H'(0,07)$  dosimeters) and **take** the entry “This test is given in 11.8” across both columns.

## 8 Modification to 11.8

**Delete** “n  $H_p(10)$ ,  $H_p(3)$  or  $H_p(0,07)$ ”.

## 9 Modification to 13.7.3

**Replace** in the fourth and fifth paragraph “temperature of the reader” with “temperature of the reader’s environment”.

**Add** in the fourth paragraph after “shall be” the following text “at least 4 h” and **add** after “(see Table 7)” the following text “at the end of this period”.

**Replace** in the fifth paragraph “at least 4 h” with “this period”.

## 10 Modification to 13.7.4

**Add** after “(for type S influence quantities)” the following text: “and if for type F and type S,  $v(H_{low})$  fulfils line 6 of Table 8 to Table 13, respectively”.

## 11 Modification to 14.4

**Replace** in the note “ $U_m$ ” with “ $U_{com}$ ” two times.

## 12 Modification to 16.2

**Add** at the last but second dash at the end in the bracket “for  $H_p(0,07)$  dosimeters including the response to beta radiation with a mean energy of 0,24 MeV, see Table 10, line 10”.

## 13 Modification to Table 10

**Replace** in line 9, third column, “250 keV” with “1,25 MeV”.

**Delete** in line 10, third column, “0,24 MeV to” and **replace** “for extremity dosimeters” with “and a mandatory test at 0,24 MeV and 0° to  $\pm 60^\circ$  for extremity dosimeters”.

**Add** in line 10, fourth column, “Compliance at 0,24 MeV is not required but results shall be stated”.