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**Električne naprave za odkrivanje ogljikovega monoksida v gospodinjstvih - 1. del:  
Preskusne metode in zahtevane lastnosti**

Electrical apparatus for the detection of carbon monoxide in domestic premises - Part 1:  
Test methods and performance requirements

Elektrische Geräte für die Detektion von Kohlenmonoxid in Wohnhäusern - Teil 1:  
Prüfverfahren und Anforderungen an das Betriebsverhalten

Appareils électriques pour la détection de monoxyde de carbone dans les locaux à  
usage domestique - Partie 1: Méthodes d'essais et prescriptions de performances

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**Ta slovenski standard je istoveten z: EN 50291-1:2010/A1:2012**

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**ICS:**

13.320 Alarmni in opozorilni sistemi Alarm and warning systems

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50291-1/A1**

June 2012

ICS 13.320

English version

**Electrical apparatus for the detection of carbon monoxide in domestic premises -  
Part 1: Test methods and performance requirements**

Appareils électriques pour la détection de  
monoxyde de carbone dans les locaux à  
usage domestique -  
Partie 1: Méthodes d'essais et  
prescriptions de performances

Elektrische Geräte für die Detektion von  
Kohlenmonoxid in Wohnhäusern -  
Teil 1: Prüfverfahren und Anforderungen  
an das Betriebsverhalten

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This amendment A1 modifies the European Standard EN 50291-1:2010; it was approved by CENELEC on 2012-05-07. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre 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**

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## Foreword

This document (EN 50291-1:2010/A1:2012) has been prepared by Technical Committee CLC/TC 216 "Gas detectors".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-05-07
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2015-05-07

This amendment includes the following changes with respect to EN 50291-1:2010:

- detailed provisions for end-of-life indication;
- a change in the degree of protection for battery operated apparatus;
- additional provisions for battery capacity; and
- editorial changes.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

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## 1 Modification to Clause 2 – Update of normative references

1.1 Update the date for referenced European Standard EN 50271:2010.

1.2 Update the date for referenced European Standard EN 60704-1:2010.

## 2 Modification to Clause 3

### 2.1 Revised term and definition - 3.17

*Replace the existing term and definition with the following:*

#### "3.17

##### **apparatus**

carbon monoxide detection device, which may also be generically termed "gas detector", comprising the sensor, remote sensor if applicable, alarm and any other circuit components, power supply and, for type A apparatus, a means of providing an output signal"

### 2.2 New term and definition - 3.18

*Insert new term and definition:*

#### "3.18

##### **end-of-life**

point in time where the apparatus should be replaced"

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## 3 Modification to 4.3

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*Delete the third paragraph:*

"If a sensor 'end-of-life' indication is fitted, this shall be clearly different from all other indications."

## 4 Add new 4.4 – End-of-life

4.1 *Insert new 4.4.*

4.2 *Update subsequent numbering of subclauses.*

4.3 *Update reference to 4.4 in 3<sup>rd</sup> paragraph of 4.1.*

### "4.4 End-of-life

#### 4.4.1 General

Where incorporated, the end-of-life indicator shall be activated at a point that is determined either by prediction or inbuilt testing.

#### 4.4.2 Prediction of end-of-life

The maximum length of time the manufacturer determines, either by prediction or lifetime tests, until the application of test gas C would fail the requirements of Table 3.

#### 4.4.3 Inbuilt testing of end-of-life

The end-of-life is determined as the point in time when the application of test gas C or equivalent would fail the requirements of Table 3."

## 5 Modification to 4.5 – Fault signals

*Insert new 3<sup>rd</sup> paragraph.*

"Where an end-of-life indication is incorporated, it can utilise the fault signal. Otherwise the end-of-life indication shall be clearly different from all other indications."

## 6 Modification to 4.8.2 – Labelling

*Delete 2<sup>nd</sup> paragraph:*

The label shall be visible with the apparatus in a typical installed position and markings b) and h) shall be clearly visible.

*Insert new 3<sup>rd</sup> paragraph:*

"The markings b) and h) shall be clearly visible with the apparatus in a typical installed position."

## 7 Modification to 4.8.5 – Packaging

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*Delete existing text of 4.8.5, and replace with the text which includes the following changes:*

- *Insert new numbering of paragraphs.*
- *Include editorial changes to the text.*
- *Add new 3<sup>rd</sup> paragraph 4.8.5.3.*

### "4.8.5 Packaging

#### 4.8.5.1 The apparatus packaging shall display

- a warning that the apparatus should be installed by a competent person,
- the relevant information regarding storage and transport,
- the expected lifetime of the sensor if it could be affected by storage time and if different to the lifetime of the apparatus.

#### 4.8.5.2 The package shall clearly display the following message:

This apparatus is designed to protect individuals from the acute effects of carbon monoxide exposure. It will not fully safeguard individuals with specific medical conditions. If in doubt consult a medical practitioner.

#### 4.8.5.3 Where incorporated, the apparatus packaging shall state that the apparatus includes an end-of-life indication."

## 8 Modification to 5.3.17 – Degree of protection

*Replace the first paragraph with the following text:*

"The enclosure of the apparatus shall provide a degree of protection of at least IPX2D with the exception of battery-powered apparatus."

## 9 Modification to 6.2.3 – Performance requirements

*Insert the following text after the first sentence in the 1<sup>st</sup> paragraph:*

" or longer if specified by the apparatus manufacturer."

NOTE New 1<sup>st</sup> paragraph:

The assessment of 6.2.2 shall indicate that the battery or batteries are capable of operating the apparatus as indicated in 6.2.1 for a period of 12 months *or longer if specified by the apparatus manufacturer*. From the time when low battery voltage warning is indicated, the battery shall have sufficient capacity to give a low battery voltage warning for at least 7 days followed by an alarm signal as specified in 4.3 for at least 4 min.

## 10 Modification to the Bibliography

Update the date for referenced European Standard EN 50291-2:2010.

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