
**Zrak na delovnem mestu - 1. del: Detektorji plina - Zahteve za delovanje
detektorjev strupenih plinov - Dopolnilo AA**

Workplace Atmospheres - Part 1: Gas detectors - Performance requirements of
detectors for toxic gases

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Ta slovenski standard je istoveten z: prEN IEC 62990-1:2021/prAA:2022

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ICS:

13.040.30	Kakovost zraka na delovnem mestu	Workplace atmospheres
13.320	Alarmni in opozorilni sistemi	Alarm and warning systems

**oSIST prEN IEC 62990-
1:2022/oprAA:2022**

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN IEC 62990-1
prAA

March 2022

ICS 29.260.20

English Version

Workplace Atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases

To be completed

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This draft amendment prAA, if approved, will modify the European Standard prEN IEC 62990-1; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2022-06-17.

It has been drawn up by CLC/SC 31-9.

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.

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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.

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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

Contents	Page
European foreword.....	3
1 Modification to “Introduction”	4
2 Modification to “Scope”	4
3 Modification to Clause 2, “Normative references”	4
4 Modification to Clause 4, “General requirements”	4
5 Test methods	4
6 Addition of Annex ZA, “Normative references to international publications with their corresponding European publications”	5
Annex ZA (normative) Normative references to international publications with their corresponding European publications	6

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European foreword

This document has been prepared by CLC/SC 31-9, “Electrical apparatus for the detection and measurement of combustible gases to be used in industrial and commercial potentially explosive atmospheres”, of CLC/TC 31, “Electrical apparatus for explosive atmospheres”.

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)

This document contains common modifications to prEN IEC 62990-1.

This document will, together with prEN IEC 62990-1, supersede EN 45544-1:2015, EN 45544-2:2015 and EN 45544-3:2015.

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 62990-1:2019 and IEC 62990 1/COR1:2019 and are prefixed “Z”.

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prEN IEC 62990-1:2021/prAA:2022 (E)

1 Modification to “Introduction”

Replace “ISO/IEC 62990” by “EN 62990”.

Replace “IEC 60079-29-1” by “EN 60079-29-1”.

Replace “IEC 60079-29-4” by “EN 60079-29-4”.

Replace “IEC 60079-29-2” by “EN 60079-29-2”.

Replace “IEC 60079-29-3” by “EN 60079-29-3”.

2 Modification to “Scope”

Replace “ISO/IEC 62990” by “EN 62990”.

3 Modification to Clause 2, “Normative references”

Add the following references:

EN 50270, *Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen*

EN 50271:2018, *Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen - Requirements and tests for apparatus using software and/or digital technologies*

Replace “IEC 60068-2-6” by “EN 60068-2-6”.

Replace “IEC 60079-0” by “EN 60079-0”.

Replace “IEC 60529” by “EN 60529”.

Delete IEC 61000-4-29.

Delete IEC 61000-6-3. [https://standards.iteh.ai/catalog/standards/sist/2d677b4d-](https://standards.iteh.ai/catalog/standards/sist/2d677b4d-eddf-431c-876c-a75bffa52e800/osist-pren-iec-62990-1-2022-opraa-2022)

Delete IEC 61000-6-4. [eddf-431c-876c-a75bffa52e800/osist-pren-iec-62990-1-](https://standards.iteh.ai/catalog/standards/sist/2d677b4d-eddf-431c-876c-a75bffa52e800/osist-pren-iec-62990-1-2022-opraa-2022)

Delete IEC 61326-1. [2022-opraa-2022](https://standards.iteh.ai/catalog/standards/sist/2d677b4d-eddf-431c-876c-a75bffa52e800/osist-pren-iec-62990-1-2022-opraa-2022)

4 Modification to Clause 4, “General requirements”

*In 4.1, at the end of the first sentence, **replace** “... as specified in the IEC 60079 series of standards” by “...as specified in the appropriate regulations for explosion protection”.*

Replace the whole subclause 4.2.9 up to 4.2.9.7 included by the following:

“4.2.9 Apparatus using software and/or digital technologies

The equipment shall fulfil the requirements of EN 50271.

Software-controlled accessories shall be included where related to safety.”

*In 4.3, list item f), **replace** “IEC 60079-0” by “EN 60079-0”.*

*In 4.4, list item p), **replace** “IEC 60529” by “EN 60529”.*

5 Test methods

*In 5.4.4.1.1 and in 5.4.4.1.2.1, **replace** “IEC 60068-2-6” by “EN 60068-2-6”.*

Replace the whole subclause 5.4.7.3 by the following:

“5.4.7.3 Electromagnetic compatibility

The equipment shall be set up under normal conditions, in accordance with 5.3, and then shall be subjected to the tests specified in EN 50270.”

*In 5.4.9.4, at the end of the first sentence. **replace** “...in accordance with 4.2.9.5” by “ in accordance with EN 50271:2018, 4.5”.*

Replace the whole subclause 5.4.10 by the following:

“5.4.10 Verification of software and digital components

Design and function of the equipment using software and/or digital technologies shall be evaluated and tested according to 4.2.9.”

*In 5.4.11, **replace** “IEC 60529” by “EN 60529”.*

*In 6.2.1, Table 1, line 5.4.10, **replace** “Software controlled equipment” by “ Verification of software and digital components”.*

6 Addition of Annex ZA, “Normative references to international publications with their corresponding European publications”

Add the following Annex ZA.

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