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Responsible committee: EXL/31/1 Gas detectors

Interested committees:

Title: Draft BS EN 50275 Specification for portable electrical apparatus designed to measure draught and gas pressure of heating appliances and systems.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

**Specification for portable electrical apparatus designed to
measure draught and gas pressure of heating appliances and
systems**

Spécification pour les appareils électriques portatifs conçus
pour mesurer la pression du tirage et des gaz dans les
conduits d'évacuation des appareils et systèmes de
chauffage

To be completed

This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2023-10-27.

It has been drawn up by CLC/TC 216.

If this draft becomes a European Standard, 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.

This draft European Standard 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, Türkiye 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

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34 **European foreword**

35 This document [prEN 50725:2023] has been prepared by CLC/TC/216 “Gas Detectors”.

36 This document is currently submitted to the Enquiry.

37 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)

38 **Introduction**

39 This document covers apparatus for measuring draught and gas pressure of heating appliances and systems.
40 It forms a specification of portable electrical apparatus designed to measure draught and gas pressure of heating
41 appliances and systems.

1 Scope

This document specifies the requirements and test methods concerning, in particular the construction, safety, and fitness for purpose, as well as the capability and marking of a hand-held battery powered pressure and leakage measurement instrument, hereafter referred to as “pressure meters”, for gas pipework in buildings, gas pipes of appliances and draught in chimneys.

NOTE Areas of application can be supply pressure of gas appliances, nozzle pressure of gas appliances (see relevant instruction manuals of gas appliances) as well as strength test, tightness test and fitness test of gas pipework as defined in EN 1775 and relevant national standards for gas pipework in buildings, and draught measurement in chimneys of heating appliances.

This document covers pressure meters with the capability of

- use with air, natural gas, liquid petroleum gas (LPG), hydrogen and mixtures of natural gas and hydrogen,
- measuring pressure in units of bar, mbar, Pa, hPa, kPa, MPa, H₂O, mm H₂O or PSI,
- measuring leakage rate in l/h,
- withstanding the every-day working environment encountered by installation and service engineers in domestic, commercial, or industrial premises.

Such pressure meters might be capable of

- being switchable between units by the user,
- storing and/or transmitting said measurements to a remote user.

2 Normative references

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.

EN 50270:2015,¹ *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*

EN 60068-2-6, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)* (IEC 60068-2-6)

prEN IEC 60335-1:2022,² *Household and similar electrical appliances – Safety- Part 1: General requirements* (IEC 60335-1:2020)

ISO/IEC Guide 98-3:2008, *Uncertainty of measurement – Guide to the expression of uncertainty in measurement* (GUM. 1995)

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>

¹ As impacted by EN 50270:2015/AC:2016-08.

² Under preparation.