

<b>STN</b>	<b>Špecifikácia prenosných elektrických prístrojov určených na meranie ťahu a tlaku plynu vykurovacích zariadení a systémov</b>	<b>STN EN 50725</b>  37 8370
------------	---	--

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

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/25

Obsahuje: EN 50725:2025

**140484**

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025

Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50725**

February 2025

ICS 13.320

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

Anforderungen an tragbare elektrische Geräte zur Messung  
des Differenzdrucks und des Gasdruckes von  
Heizungsgeräten und -anlagen

This European Standard was approved by CENELEC on 2025-01-27. 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.

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 European Standard 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.

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.



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 50725:2025 (E)**

<b>Contents</b>	<b>Page</b>
European foreword .....	3
Introduction .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 General requirements.....	7
4.1 General.....	7
4.2 Construction .....	7
4.3 Labelling and Instructions .....	9
5 Test methods .....	10
5.1 General requirements for tests .....	10
5.2 Normal conditions for tests .....	11
5.3 Mechanical tests .....	11
5.4 Electrical and software tests .....	12
5.5 Tests with pressure supply .....	13
Annex A (informative) National situations for strength test, tightness test and fitness test of gas pipework with reference to EN 1775 and EU 426/2016 .....	14
A.1 Gas installation example.....	14
A.2 Strength test according to EN 1775 and national implementation for maximum operating pressure up to 100 kPa .....	14
A.3 Tightness test according to EN 1775 and national implementation for maximum operating pressure up to 100 hPa .....	15
A.4 Fitness test according to EN 1775 and national implementation for maximum operating pressure up to 100 hPa .....	15
A.5 Tightness test according to EN 1775 and national implementation for maximum operating pressure up to 100 hPa .....	16
Annex B (informative) National situations for strength test, tightness test and fitness test of gas pipework with reference to IGEM/UP/1B .....	17
Annex C (normative) Standard methods for determining measuring uncertainty .....	18
C.1 Determination of the analytic function .....	18
C.2 Determination of reproducibility .....	18
Bibliography .....	19

## European foreword

This document (EN 50725:2025) has been prepared by 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) 2026-02-28
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2028-02-29

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

**EN 50725:2025 (E)****Introduction**

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

The measuring uncertainty should be justified by internationally accepted methods over the whole measuring range. The determination of measuring uncertainty is described in Annex C.

## 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 (see Annex A) and relevant national standards (see Annex B) 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, in H<sub>2</sub>O, mm H<sub>2</sub>O, 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 IEC 61326-1, *Electrical equipment for measurement, control and laboratory use — EMC requirements — Part 1: General requirements (IEC 61326-1)*

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)*

EN IEC 60335-1:2023,<sup>1</sup> *Household and similar electrical appliances — Safety — Part 1: General requirements (IEC 60335-1:2020)*

EN 60529:1991,<sup>2</sup> *Degrees of protection provided by enclosures (IP Code)*

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

<sup>1</sup> As impacted by EN IEC 60335-1:2023/A11:2023.

<sup>2</sup> As impacted by EN 60529:1991/corrigendum May 1993, EN 60529:1991/AC:2016-12, EN 60529:1991/A1:2000 and EN 60529:1991/A2:2013.