



NSAI
Standards

Irish Standard
I.S. EN 257:2010

Mechanical thermostats for gas-burning appliances

I.S. EN 257:2010

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i> EN 257:1992	<i>This document is based on:</i> EN 257:2010 EN 257:1992	<i>Published:</i> 23 June, 2010 25 September, 1992
This document was published under the authority of the NSAI and comes into effect on: 29 June, 2010		ICS number: 27.060.20
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
Údarás um Chaighdeáin Náisiúnta na hÉireann		

English Version

Mechanical thermostats for gas-burning appliances

Thermostats mécaniques pour appareils à gaz

Mechanische Temperaturregler für Gasgeräte

This European Standard was approved by CEN on 19 May 2010.

CEN 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 Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Foreword.....		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Classification.....	7
5	Units of measurement and test conditions	7
6	Construction requirements.....	7
7	Performance	10
8	EMC/Electrical requirements	20
9	Marking, installation and operating instructions	21
Annex A (informative) Gas connections in common use in the various countries		23
Annex B (informative) Leak-tightness test — volumetric method		24
Annex C (informative) Leak-tightness test — pressure loss method		25
Annex D (normative) Conversion of pressure loss into leakage rate		26
Annex E (normative) Electrical/electronic component fault modes		27
Annex F (normative) Additional requirements for safety accessories and pressure accessories as defined in EU Directive 97/23/EC.....		28
Annex G (normative) Materials for pressurized parts.....		29
Annex H (informative) Additional materials for pressurized parts.....		30
Annex I (normative) Requirements for controls used in DC supplied gas burners and gas burning appliances		31
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2009/142/EC relating to appliances burning gaseous fuels		32
Bibliography		34

Figures

Figure 1 — Thermostat test apparatus16

Figure 2 — Typical operating characteristics of a thermostat over a range of temperature set-point adjustments17

Tables

Table 1 — Sequence of testing 10

Table 2 — Maximum leakage rates 12

Table 3 — Exceptions for thermal overload 18

Table 4 — Number of mechanical cycles20

Table ZA.1 — Correspondence between this European Standard and Directive 2009/142/EC relating to appliances burning gaseous fuels32

Foreword

This document (EN 257:2010) has been prepared by Technical Committee CEN/TC 58 "Safety and control devices for burners and appliances burning gaseous or liquid fuels", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2010, and conflicting national standards shall be withdrawn at the latest by December 2010.

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

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

This document supersedes EN 257:1992.

This European Standard is intended to be used in conjunction with EN 13611:2007. This document refers to clauses of EN 13611:2007 or adapts clauses by stating "with the following modification", "with the following addition", "is replaced by the following" or "is not applicable" in the corresponding clause. This European Standard adds clauses or sub clauses to the structure of EN 13611:2007 which are particular to this European Standard. It should be noted that these clauses and sub-clauses are not indicated as an addition.

It should be noted that the following significant technical changes compared to the previous edition have been incorporated in this European Standard:

- a) scope is enlarged to maximum inlet pressures up to and including 50 kPa (500 mbar);
- b) alignment with EN 13611:2007;
- c) updating of Clause 2, normative references;
- d) units of measurement and test conditions are updated according to EN 13611:2007;
- e) requirements and tests concerning durability of elastomers in contact with gas (7.8 of this European Standard) are now totally aligned with EN 13611:2007, 7.8;
- f) marking, installation and operating instructions (Clause 9 of this European Standard) are extended to cover additional information.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-