

# DIN EN 257:2010-11 (E)

## Mechanical thermostats for gas-burning appliances

---

<b>Contents</b>		<b>Page</b>
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 apparatus .....		16
Figure 2 -- Typical operating characteristics of a thermostat over a range of temperature set-point adjustments .....		17
Tables Table 1 -- Sequence of testing .....		10

<b>Table 2 -- Maximum leakage rates .....</b>	<b>12</b>
<b>Table 3 -- Exceptions for thermal overload .....</b>	<b>18</b>
<b>Table 4 -- Number of mechanical cycles .....</b>	<b>20</b>
<b>Table ZA.1 -- Correspondence between this European Standard and Directive 2009/142/EC relating to appliances burning gaseous fuels .....</b>	<b>32</b>