

DIN EN 126:2012-06 (E)

Multifunctional controls for gas burning appliances

| Contents | Page |
|---|------|
| Foreword | 4 |
| Introduction | 5 |
| 1 Scope | 6 |
| 2 Normative references | 6 |
| 3 Terms and definitions | 7 |
| 4 Classification | 7 |
| 4.1 Classes of control | 7 |
| 4.2 Groups of control | 7 |
| 4.3 Classes of control functions | 7 |
| 5 Units of measurement and test conditions | 8 |
| 6 Construction requirements | 8 |
| 6.101 General | 8 |
| 6.102 MFC based on combination of controls | 8 |
| 6.102.1 General | 8 |
| 6.102.2 Interaction between Controls | 9 |
| 6.102.3 Alternative gas connections | 9 |
| 6.103 MFC based on Application Control Functions | 10 |
| 6.103.1 Assessment for ACFs in gas appliances | 10 |
| 6.103.2 Gas shut-off control function | 10 |
| 7 Performance | 10 |
| 7.101 General | 10 |
| 7.102 External leak-tightness of MFC | 10 |
| 7.103 Thermostat function | 10 |
| 7.104 Internal leak tightness of MFC | 10 |
| 8 EMC/Electrical requirements | 10 |
| 9 Marking, installation and operating instructions | 11 |
| 9.1 Marking | 11 |
| 9.2 Installation and operating instructions | 11 |
| 9.3 Warning notice | 11 |
| Annex A (informative) Gas connections in common use in the various countries | 12 |
| Annex B (informative) Leak-tightness test -- volumetric method | 13 |
| Annex C (informative) Leak-tightness test -- pressure loss method | 14 |
| Annex D (normative) Conversion of pressure loss into leakage rate | 15 |
| Annex E (normative) Electrical/electronic component fault modes | 16 |
| Annex F (normative) Additional requirements for safety accessories and pressure accessories as defined in EC Directive 97/23/EC | 17 |

| | |
|---|-----------|
| Annex G (normative) Materials for pressurized parts | 18 |
| Annex H (informative) Additional materials for pressurized parts | 19 |
| Annex I (normative) Requirements for controls used in DC supplied gas burners and gas burning appliances | 20 |
| Annex AA (normative) Automatic water operated gas valve | 21 |
| AA.1 Construction requirements | 21 |
| AA.2 Performance requirements | 21 |
| AA.2.1 Sealing force | 21 |
| AA.2.2 Endurance | 21 |
| AA.2.3 Test of automatic water-operated gas valves | 21 |
| AA.2.4 Flow rate and leak-tightness after endurance | 21 |
| Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2009/142/EC relating to appliances burning gaseous fuels | 22 |
| Bibliography | 24 |
| Figures Figure 1 -- Standards house | 5 |
| Tables Table 1 -- External leakage rate | 10 |
| Table ZA -- Correspondence between this European Standard and Directive 2009/142/EC relating to appliances burning gaseous fuels (1 of 2) | 22 |
| Table ZA -- Correspondence between this European Standard and Directive 2009/142/EC relating to appliances burning gaseous fuels (2 of 2) | 23 |