

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