

# DIN EN 126:2012-06 (E)

## Multifunctional controls for gas burning appliances

---

<b>Contents</b>		<b>Page</b>
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

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