DIN EN 126:2025-09 (E)

Safety and control devices for burners and appliances burning gaseous fuels - Multifunctional controls

Contents

Page

European foreword 4

Introduction 5

1 Scope 7

2 Normative references 7

3 Terms and definitions 8

4 Classification 9
4.1 Classes of control 9
4.2 Groups of control 9
4.3 Classes of control functions 9
4.4 Types of *DC* supplied controls 9

5 Test conditions and uncertainty of measurements 9

6 Design and construction 9
6.1 General 9
6.2 MFC based on combination of controls 9
6.2.1 General 9
6.2.2 Interaction between controls 10

7 Performance 10
7.1 General 10
7.2 External leak-tightness of the MFC 11
7.2.1 Requirement 11
7.2.2 Test 11
7.3 Thermostat function test 11
7.4 Internal leak tightness of MFC 11

8 Electrical requirements 11

9 Electromagnetic compatibility (EMC) 11

10 Marking, instructions 11
10.1 General 11
10.2 Warning Notice 12

Annex A (informative) Abbreviations and Symbols 13

Annex B (informative) Leak-tightness tests for gas controls — volumetric method 14

Annex C (informative) Leak-tightness tests for gas controls — pressure loss method 15

Annex D (normative) Calculation of pressure loss into leakage rate 16

Annex E (normative) Electrical/electronic component fault modes 17

Annex F (normative) Additional requirements for safety accessories and pressure accessories as defined in EU Directive 2014/68/EU 18

Annex G (normative) Materials for pressurized parts 19

Annex H (normative) Additional materials for pressurized parts 20

Annex I (normative) Requirements for controls used in *DC* supplied burners and appliances burning gaseous or liquid fuels **21**

Annex J (normative) Method for the determination of a Safety Integrity Level (SIL) **22**

Annex K (normative) Method for the determination of a Performance Level (PL) **23**

Annex L (informative) Relationship between Safety Integrity Level (SIL) and Performance Level (PL) **24**

Annex M (normative) Reset functions **25**

Annex N (informative) Guidance document on Environmental Aspects **26**

Annex O (normative) Seals of elastomer, cork, and synthetic fibre mixtures **27**

Annex AA (normative) Automatic water operated gas valve **28**

Bibliography **30**

Figures

Figure 1 — Interrelation of control standards 5

Tables

Table 1 — Maximum external leakage rates 11