DIN EN 1434-2:2016-02 (E)

Heat meters - Part 2: Constructional requirements

Contents

Page

European foreword 3

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Temperature sensors 6
4.1 General 6
4.2 Mechanical design 6
4.3 Platinum temperature sensor 11
4.4 Other temperature sensors 13

5 Flow sensors 13
5.1 Maximum admissible working pressure, PS in bar 13
5.2 Sizes and dimensions 14
5.3 Test signal output 15
5.4 Adjusting device 15

6 Calculators 16
6.1 Terminals - specification and identification 16
6.2 Batteries 18
6.3 Dynamic behaviour 18
6.4 Test signal output 18
6.5 24 h interruption in supply voltage 19

7 Complete meter 19

8 Interfaces between sub-assemblies 19
8.1 General 19
8.2 Definitions for pulse device interfaces 19

9 Marking and security seals 22
9.1 Marking 22
9.2 Sites for marking 24
9.3 Security seals 24

Annex A (informative) Examples of temperature sensors 25

Annex B (normative) Input and output test signals 36

Annex C (informative) Low voltage Power Supply for heat meters and their sub-assemblies 38

C.1 Remote supply 38
C.2 Local external DC supply 38
C.3 Power supply specifications 38

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2004/22/EC, MID 40

Bibliography 41