DIN EN ISO 4064-1:2017-10 (E)

Water meters for cold potable water and hot water - Part 1: Metrological and technical requirements (ISO 4064-1:2014)

Contents

Page

European foreword ... **3**

Annex ZA (informative) **Relationship between this European Standard and the essential requirements of Directive 2014/32/EU aimed to be covered** ... **4**

Foreword ... **10**

1 Scope ... **11**

2 Normative references ... **11**

3 Terms and definitions ... **11**
3.1 Water meter and its constituents ... 11
3.2 Metrological characteristics ... 15
3.3 Operating conditions ... 16
3.4 Test conditions ... 18
3.5 Electronic and electrical equipment ... 20
3.6 Use of certain terms within the European Economic Area ... 21

4 Metrological requirements ... **21**
4.1 Values of Q_1, Q_2, Q_3, and Q_4 ... 21
4.2 Accuracy class and maximum permissible error ... 22
4.3 Requirements for meters and ancillary devices ... 23

5 Water meters equipped with electronic devices ... **25**
5.1 General requirements ... 25
5.2 Power supply ... 25

6 Technical requirements ... **26**
6.1 Materials and construction of water meters ... 26
6.2 Adjustment and correction ... 27
6.3 Installation conditions ... 27
6.4 Rated operating conditions ... 29
6.5 Pressure loss ... 29
6.6 Marks and inscriptions ... 29
6.7 Indicating device ... 31
6.8 Protection devices ... 34

7 Metrological controls ... **34**
7.1 Reference conditions ... 34
7.2 Type evaluation and approval ... 35
7.3 Initial verification ... 39

Annex A (normative) **Performance tests for water meters with electronic devices** ... **41**

Annex B (normative) **Checking facilities** ... **43**

Annex C (informative) **Permissible errors in service and subsequent verification** ... **47**

Bibliography ... **48**