VEEARVESTID KÜLMALE JOOGIVEELE JA KUUMALE VEELE. OSA 1: METROLOOGILISED JA TEHNILISED NÕUDED

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



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 4064-1:2017 sisaldab Euroopa standardi EN ISO 4064-1:2017 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 4064-1:2017 consists of the English text of the European standard EN ISO 4064-1:2017.	
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.	
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 24.05.2017.	Date of Availability of the European standard is 24.05.2017.	
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.	

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EUROPEAN STANDARD NORME EUROPÉENNE

EN ISO 4064-1

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Supersedes EN ISO 4064-1:2014

English Version

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

Compteurs d'eau potable froide et d'eau chaude -Partie 1: Exigences métrologiques et techniques (ISO 4064-1:2014) Wasserzähler zum Messen von kaltem Trinkwasser und heißem Wasser - Teil 1: Metrologische und technische Anforderungen (ISO 4064-1:2014)

This European Standard was approved by CEN on 11 May 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of ISO 4064-1:2014 has been prepared by Technical Committee ISO/TC 30 "Measurement of fluid flow in closed conduits" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 4064-1:2017 by Technical Committee CEN/TC 92 "Water meters" the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 4064-1:2014.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directives.

For relationship with EU Directives, see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 4064-1:2014 has been approved by CEN as EN ISO 4064-1:2017 without any modification.

Annex ZA

(informative)

Relationship between this European Standard and the essential requirements of Directive 2014/32/EU aimed to be covered

This European Standard has been prepared under a Commission's standardization request Mandate to CEN and CENELEC for standardisation in the field of measuring instruments "M/374 EN" to provide one voluntary means of conforming to essential requirements of Directive 2014/32/EU of the European Parliament and the Council of 26 February 2014 on measuring instruments (Text with EEA relevance).

Once this standard is cited in the Official Journal of the European Union under that Directive 2014/32/EU, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive 2014/32/EU, and associated EFTA regulations.

Introduction:

The column "Comment" the term "Addressed" indicates the compliance between EN ISO 4064-1:2014 and the relevant requirement in Directive 2014/32/EU. The term "Not (fully) addressed" indicates that compliance may not (fully) be realised, whilst "Addressed" may also be qualified in other ways. In the case the requirement is "Not fully addressed", a short statement may explain what is covered. The indication "Not applicable" means that the requirement in Annex I of Directive 2014/32/EU is not relevant for Water Meters.

The original Directive 2004/22/EU had been amended by Directive 137/2009/EC. These have been fully replaced by Directive 2014/32/EU. This latest directive has already been amended by Directive 2015/13/EU.

The numbering in the first column reflects the structure of the new Directive 2014/32/EU.

For purpose of cross-reference the second column indicates the structure of the original Directive 2004/22/EU.

Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2014/32/EU.

Essential Requirements (ERs) of Directive 32/2014/EU Annex I Essential Requirements Note: Amended by Directive 2015/13/EU	Essential Requirements (ERs) of Directive 22/2004/EC Annex I Essential Requirements Note: Amended by Directive 2009/137	Clause(s)/sub- clause(s) of this EN	Qualifying remarks/ Notes
I.1.1 and 1.2 Allowable errors, Rated operating conditions	I.1.1 and 1.2 Allowable errors, Rated operating conditions	4.2.2 4.2.3 6.4	Accuracy class 1 Accuracy class 2
I.1.3.1 Climatic environments, temperature limits	I.1.3.1 Climatic environments, temperature limits	A.2	Classes B, O, or M
I.1.3.2 Mechanical environments	I.1.3.2 Mechanical environments	A.2	Classes B, O, or M
I.1.3.3 Electromagnetic environments	I.1.3.3 Electromagnetic environments	A.3	Classes E1 or E2
I.1.3.4 Other influences	I.1.3.4 Other influences	7.2.12.2.2 Annex A table A.1, 8.5.3	Addressed
I.1.4.1 Basic rules for testing	I.1.4.1 Basic rules for testing	Not addressed in EN ISO 4064-1	Addressed in EN ISO 4064-2 7.2.2, 7.4.2 7.4.3
I.1.4.2 Ambient humidity	I.1.4.2 Ambient humidity	Annex A table A.1, 8.4	Addressed
I.2 Reproducibility	I.2 Reproducibility	7.2.9.3	Addressed
I.3 Repeatability	I.3 Repeatability	7.2.4 and Covered in EN ISO 4064-2, performance tests	Addressed via acceptance criteria of tests
I.4 Discrimination and sensitivity	I.4 Discrimination and sensitivity	Covered in EN ISO 4064-2, performance tests	Addressed via acceptance criteria of tests
I.5 Durability	I.5 Durability	7.2.6	Addressed
I.6 Reliability	I.6 Reliability	7.2.6	Addressed
I.7 Suitability	I.7 Suitability	Covered in EN ISO 4064-2, performance tests EN ISO 4064-1,	Addressed via acceptance criteria of tests.