



**SLOVENSKI STANDARD**  
**SIST EN ISO 4064-1:2017/A11:2023**

**01-marec-2023**

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**Vodomeri za merjenje hladne pitne vode in vroče vode - 1. del: Metrološke in tehnične zahteve - Dopnilo A11 (ISO 4064-1:2014)**

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

Wasserzähler zum Messen von kaltem Trinkwasser und heißem Wasser - Teil 1: Metrologische und technische Anforderungen (ISO 4064-1:2014)

Compteurs d'eau potable froide et d'eau chaude - Partie 1: Exigences métrologiques et techniques (ISO 4064-1:2014)

**Ta slovenski standard je istoveten z: EN ISO 4064-1:2017/A11:2022**

**ICS:**

17.120.10	Pretok v zaprtih vodih	Flow in closed conduits
91.140.60	Sistemi za oskrbo z vodo	Water supply systems

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EUROPEAN STANDARD

EN ISO 4064-1:2017/A11

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2022

ICS 91.140.60

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 amendment A11 modifies the European Standard EN ISO 4064-1:2017; it was approved by CEN on 26 October 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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 amendment 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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## European foreword

This document (EN ISO 4064-1:2017/A11:2022) has been prepared by Technical Committee CEN/TC 92 “Water meters” the secretariat of which is held by SNV.

This Amendment to the European Standard EN ISO 4064-1:2017 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2023, and conflicting national standards shall be withdrawn at the latest by June 2023.

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 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.

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## 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 and application of the edition of the normatively referenced standards as given in Table [ZA.2] 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.

**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	STANDARD PREVIEW (standards.ite SIST EN ISO 4064-1:2017/A11:2023 <a href="https://standards.iteh.ai/catalog/standards/sist/484e18fc-7813-48d2-a075-cc04e031eed3/sist-en-iso-4064-1-2017-a11-2023">https://standards.iteh.ai/catalog/standards/sist/484e18fc-7813-48d2-a075-cc04e031eed3/sist-en-iso-4064-1-2017-a11-2023</a>	Clause(s)/sub-clause(s) of this EN	Qualifying remarks/Notes
I.1.1 and 1.2 Allowable errors, Rated operating conditions		4.2.1 4.2.2 4.2.3 4.2.8 6.4	
I.1.3.1 Climatic environments, temperature limits		6.4 A.2 A.5	
I.1.3.2 Mechanical environments		A.2 A.5	
I.1.3.3 Electromagnetic environments		A.3 A.5	
I.1.3.4 Other influences		7.2.12.2.2 Annex A table A.1,	
I.1.4.1 Basic rules for testing		7.1 A.1	
I.1.4.2 Ambient humidity		8.4	

		Annex A table A.1,	
I.2 Reproducibility		7.2.9.3	
I.3 Repeatability		7.2.4	
I.4 Discrimination and sensitivity		6.7.2 6.7.3.2	
I.5 Durability		4.2 7.2.6	
I.6 Reliability		6.1	
I.7.1 Fraudulent use		6.1.7 6.8	
I.7.2 Suitable for use		6.1.8 6.7.1 6.4	
I.7.3 Unduly biasing		6.1.9 6.2.1	
I.7.5 Robustness and suitability of materials		6.1	
I.7.6 Allow for control after placing on the market		4.3.4 5.1.3 6.7.1 Annex B	
I.8.1 Not to be influenced in any admissible way		4.3.4 5.1.1 6.3 6.8.2.2 6.8.2.3	
I.8.2 Securing of hardware components		6.8	
I.8.3 Securing and identification of software		6.8	
I.8.4 Measurement data adequately protected against corruption		6.8	
I.8.5 Total quantity supplied not to be reset		6.8	
I.9.1 Inscriptions		6.6	

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I.9.2 Marking of packaging and documents		6.6	
I.9.3 Information on operation		6.3 6.6	
I.9.5 Scale interval for the measurand		6.7.3.2.1 6.7.3.2.3	
I.9.7 Unit of measurement		6.7.1.2	
I.9.8 Marking properties		6.6.1 6.6.2	
I.10.1 Display or hard copy		6.7.2	
I.10.2 Reading properties		6.7.1.1	
I.10.5 Properties of display for remote reading		6.1.8	
I.12 Conformity evaluation		3.6 7.2 7.3	
<b>Specific Requirements of Annex III for WATER METERS (MI-001)</b>		<b>Clause(s)/subclause(s) of this European Standard</b>	
MI.1 Values of flow rate range Note: addresses amendment of Directive 2015/13/EU		4.1 6.4	
MI.2 Temperature range of the water		4.2.4 6.4	
MI.3 Relative pressure of the water		4.2.8 6.4	
MI.4 Nominal value of AC voltage supply and limits of DC supply		5.2	
MI.5 MPE $\pm 2$ % for water temperature $\leq 30$ °C for flow rate between Q2 (included) and Q4		4.2.3	
MI.5 MPE $\pm 3$ % for water temperature $> 30$ °C for flow rate between Q2 (included) and Q4		4.2.3	
MI.6 MPE $\pm 5$ % for any water temperature for flow rate between Q1 and Q2 (excluded)		4.2.3	
MI.6 Non exploitation of MPE		4.3.3 6.1.9	Not covered



		6.2.1 7.2.3 7.3.6	
MI.7.1.1 Electromagnetic immunity		A.3	
MI.7.1.2 Condition after electromagnetic disturbance		5.1.1 A.3 A.5	
MI 7.1.3 Critical change value		5.1.2 A.3	
MI 7.2.1 Variation of measurement after durability		7.2.6.3	
MI 7.2.2 Error of indication after durability		7.2.6.3	
MI.8.1 Meter able to be installed in defined position		7.2.3	
MI.8.2 Meter is not designed to measure reverse flow		4.2.7	
MI.9 Cubic metre		6.7.1.2	

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## EN ISO 4064-1:2017/A11:2022 (E)

**Table ZA.2 — Applicable Standards to confer presumption of conformity as described in this Annex ZA**

<b>Column 1 Reference in Clause 2</b>	<b>Column 2 International Standard Edition</b>	<b>Column 3 Title</b>	<b>Column 4 Corresponding European Standard Edition</b>
ISO 4064-2:2014; OIML R 49-2:2013	ISO 4064-2:2014	Water meters for cold potable water and hot water — Part 2: Test methods	EN ISO 4064-2:2017 EN ISO 4064-2 :2017/A11 :2022

The documents listed in the Column 1 of table [ZA.2], in whole or in part, are normatively referenced in this document, i.e. are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of table [ZA.2].

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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