



**SLOVENSKI STANDARD**  
**SIST EN ISO 4064-2:2017/A11:2023**

**01-marec-2023**

---

**Vodomeri za merjenje hladne pitne vode in vroče vode - 2. del: Preskusne metode - Dopolnilo A11 (ISO 4064-2:2014)**

Water meters for cold potable water and hot water - Part 2: Test methods (ISO 4064-2:2014)

Wasserzähler zum Messen von kaltem Trinkwasser und heißem Wasser - Teil 2: Prüfverfahren (ISO 4064-2:2014)

Compteurs d'eau potable froide et d'eau chaude - Partie 2: Méthodes d'essai (ISO 4064-2:2014)

<https://standards.iteh.ai/catalog/standards/sist/bd4d725e-61d1-4c42-a7ec-615d8f91bb54/sist-en-iso-4064-2-2017-a11-2023>

**Ta slovenski standard je istoveten z: EN ISO 4064-2:2017/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

**SIST EN ISO 4064-2:2017/A11:2023**      **en,fr,de**



EUROPEAN STANDARD

EN ISO 4064-2:2017/A11

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2022

ICS 91.140.60

English Version

## Water meters for cold potable water and hot water - Part 2: Test methods (ISO 4064-2:2014)

Compteurs d'eau potable froide et d'eau chaude -  
Partie 2: Méthodes d'essai (ISO 4064-2:2014)

Wasserzähler zum Messen von kaltem Trinkwasser  
und heißem Wasser - Teil 2: Prüfverfahren (ISO 4064-  
2:2014)

This amendment A11 modifies the European Standard EN ISO 4064-2:2017; 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.

<https://standards.iteh.ai/catalog/standards/sist/bd4d725e-61d1-4c42-a7ee-615d8191bb54/sist-en-iso-4064-2-2017-a11-2023>



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

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

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/32/EU aimed to be covered</b> .....	<b>4</b>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 4064-2:2017/A11:2023

<https://standards.iteh.ai/catalog/standards/sist/bd4d725e-61d1-4c42-a7ee-615d8f91bb54/sist-en-iso-4064-2-2017-a11-2023>

## European foreword

This document (EN ISO 4064-2:2017/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 4064-2:2017 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 Directive(s).

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.

(standards.iteh.ai)

[SIST EN ISO 4064-2:2017/A11:2023](https://standards.iteh.ai/catalog/standards/sist/bd4d725e-61d1-4c42-a7ee-615d8f91bb54/sist-en-iso-4064-2-2017-a11-2023)

<https://standards.iteh.ai/catalog/standards/sist/bd4d725e-61d1-4c42-a7ee-615d8f91bb54/sist-en-iso-4064-2-2017-a11-2023>

## 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/EC 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	Clause(s)/subclause(s) of this EN	Qualifying remarks/Notes
I.1.1 and 1.2 Allowable errors, Rated operating conditions	7.4 4	
I.1.3.1 Climatic environments, temperature limits	8.2 8.3 8.4	
I.1.3.2 Mechanical environments	8.6 8.7	
I.1.3.3 Electromagnetic environments	8.5 8.8 8.9 8.10 8.11 8.12 8.13 8.14 8.15 8.16	

I.1.3.4 Other influences		8.5.2 8.5.3 8.5.4	
I.1.4.1 Basic rules for testing		7.2.2 7.4.2 7.4.3 7.4.4 7.4.5 7.4.6 8.1	
I.1.4.2 Ambient humidity		4 8.4	
I.2 Reproducibility			
I.3 Repeatability		7.4.4	
I.4 Discrimination and sensitivity		6.4.3.6	
I.5 Durability		7.11	
I.6 Reliability		7.11	
I.7.1 Fraudulent use		6.2 6.4.4 7.12	
I.7.2 Suitable for use		6.4.3 7 8	
I.7.3 Unduly biasing		7.4 8.17	
I.7.5 Robustness and suitability of materials		7 8	
I.7.6 Allow for control after placing on the market		6.4.3 6.4.4 Annex A	
I.9.1 Inscriptions		6.4.2	Addressed
I.9.5 Scale interval for the measurand		6.4.3.6.2.1	Addressed

## EN ISO 4064-2:2017/A11:2022 (E)

I.9.7 Unit of measurement		Not addressed in EN ISO 4064-2	Addressed in EN ISO 4064-1, 6.7.1.2
I.9.8 Marking properties		6.4.2	Addressed
I.10.1 Display or hard copy		6.4.3	Addressed
I.10.2 Reading properties		6.4.3.1	Addressed
I.10.5 Properties of display for remote reading		6.4.3	Addressed
I.12 Conformity evaluation		9	Addressed also in EN ISO 4064-1, 3.6 and 7.3
<b>Specific Requirements of Annex III for WATER METERS (MI-001)</b>	<b>Specific Requirements of Annex MI-001 for WATER METERS</b>	<b>Clause(s)/subclause(s) of this European Standard</b>	<b>Qualifying remarks/Notes</b>
MI.1 Values of flow rate range Note: addresses amendment of Directive 2015/13/EU		7.4	
MI.2 Temperature range of the water		7.5 7.6	
MI.3 Relative pressure of the water		7.3 7.7	
MI.4 Nominal value of AC voltage supply and limits of DC supply		8.5	
MI.5 MPE $\pm 2$ % for water temperature $\leq 30$ °C for flow rate between Q2 (included) and Q4		7.4.5	
MI.5 MPE $\pm 3$ % for water temperature $> 30$ °C for flow rate between Q2 (included) and Q4		7.4.5	
MI.6 MPE $\pm 5$ % for any water temperature for flow rate between Q1 and Q2 (excluded)		7.4.5	
MI.6 Non exploitation of MPE		7.4.5 10.1.4	Not covered
MI.7.1.1 Electromagnetic immunity		8.1.3 8.1.2 8.1.3	
MI.7.1.2 Condition after electromagnetic disturbance		8.1.3 8.1.2 8.1.3	
MI 7.1.3 Critical change value		8.1.3	



		8.12 8.13	
MI 7.2.1 Variation of measurement after durability		7.11	
MI 7.2.2 Error of indication after durability		7.11	
MI.8.1 Meter able to be installed in defined position		7.4.2.2.7.5	
MI.8.2 Meter is not designed to measure reverse flow		7.8	
MI.9 Cubic metre		6.4.3.2	

**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 4064-1:2014 OIML R 49-1:2013	ISO 4064-1:2014	Water meters for cold potable water and hot water — Part 1: Metrological and technical requirements	EN ISO 4064-1:2017 EN ISO 4064-1:2017/A11:2022
ISO 4064-3:2014 OIML R 49-3:2013	ISO 4064-3:2014	Water meters for cold potable water and hot water — Part 3: Test report format	EN ISO 4064-3:2017
ISO/IEC Guide 98-3:2008	ISO/IEC Guide 98-3:2008	Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	None For applicable standard edition see Column 2
IEC 60068-2-1	IEC 60068-2-1:2007	Environmental testing — Part 2-1: Tests — Test A: Cold	EN 60068-2-1:2007
IEC 60068-2-2	IEC 60068-2-2:2007	Environmental testing — Part 2-2: Tests — Test B: Dry heat	EN 60068-2-2:2007
IEC 60068-2-30	IEC 60068-2-30:2005	Environmental testing — Part 2-30: Tests — Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30:2005
IEC 60068-2-31	IEC 60068-2-31:2008	Environmental testing — Part 2-31: Tests — Test Ec: Rough handling shocks,	EN 60068-2-31:2008

## EN ISO 4064-2:2017/A11:2022 (E)

		primarily for equipment-type specimens	
IEC 60068-2-47	IEC 60068-2-47:2005	Environmental testing — Part 2-47: Tests — Mounting of specimens for vibration, impact and similar dynamic tests	EN 60068-2-47:2005
IEC 60068-2-64	IEC 60068-2-64:2008+AMD1:2019	Environmental testing — Part 2-64: Tests — Test Fh: Vibration, broadband random and guidance	EN 60068-2-64:2008+AMD1:2019
IEC 60068-3-4	IEC 60068-3-4:2001	Environmental testing — Part 3-4: Supporting documentation and guidance — Damp heat tests	EN 60068-3-4:2002
IEC 60654-2	IEC 60654-2:1979	Operating conditions for industrial process measurement and control equipment — Part 2: Power	EN 60654-2:1997
IEC 61000-2-1	IEC TR 61000-2-1:1990	Electromagnetic compatibility (EMC) — Part 2: Environment — Section 1: Description of the environment — Electromagnetic environment 1- for 3 low-frequency conducted disturbances and signaling in public power supply systems	None For applicable standard edition see Column 2
IEC 61000-2-2	IEC 61000-2-2/AMD2:2018	Electromagnetic compatibility (EMC) — Part 2-2: Environment — Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems	EN 61000-2-2/A2:2019  And EN 61000-2-2:2002/A1:2017
IEC 61000-4-1	IEC TR 61000-4-1:2016	Electromagnetic compatibility (EMC) — Part 4-1: Testing and measurement techniques — Overview of IEC 61000-4 series	None For applicable standard edition see Column 2
IEC 61000-4-2	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) — Part 4-2: Testing and	None