



SLOVENSKI STANDARD SIST EN ISO 4064-2:2025

01-maj-2025

Nadomešča:

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

Vodomeri za merjenje hladne pitne vode in vroče vode - 2. del: Preskusne metode (ISO 4064-2:2024)

Water meters for cold potable water and hot water - Part 2: Test methods (ISO 4064-2:2024)

Wasserzähler zum Messen von kaltem Trinkwasser und heißem Wasser - Teil 2:
Prüfverfahren (ISO 4064-2:2024)

Compteurs d'eau potable froide et d'eau chaude - Partie 2: Méthodes d'essai (ISO 4064-2:2024)

Ta slovenski standard je istoveten z: EN ISO 4064-2:2025

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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 4064-2:2025

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4064-2

February 2025

ICS 91.140.60

Supersedes EN ISO 4064-2:2017

English Version

Water meters for cold potable water and hot water - Part
2: Test methods (ISO 4064-2:2024)

Compteurs d'eau potable froide et d'eau chaude -
Partie 2: Méthodes d'essai (ISO 4064-2:2024)

Wasserzähler zum Messen von kaltem Trinkwasser
und heißem Wasser - Teil 2: Prüfverfahren (ISO 4064-
2:2024)

This European Standard was approved by CEN on 23 September 2024.

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.

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.

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

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

EN ISO 4064-2:2025 (E)

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

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European foreword

This document (EN ISO 4064-2:2025) has been prepared by Technical Committee ISO/TC 30 "Measurement of fluid flow in closed conduits" in collaboration with 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 August 2025, and conflicting national standards shall be withdrawn at the latest by August 2025.

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

This document supersedes EN ISO 4064-2:2017.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, 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 the United Kingdom.

Endorsement notice

The text of ISO 4064-2:2024 has been approved by CEN as EN ISO 4064-2:2025 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/541 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.

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	7.10 8	
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	
I.9.5 Scale interval for the measurand	6.4.3.6.2.1	
I.9.7 Unit of measurement	6.4.3.2	
I.9.8 Marking properties	6.4.2	
I.10.1 Display or hard copy	6.4.3	
I.10.2 Reading properties	6.4.3.1	
I.10.5 Properties of display for remote reading	6.4.3	
I.12 Conformity evaluation	9	
Specific Requirements of Annex III for WATER METERS (MI-001)	Clause(s)/subclause(s) of this European	Qualifying remarks/Notes

EN ISO 4064-2:2025 (E)

	Standard	
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 ± 2 % for water temperature ≤ 30 °C for flow rate between Q2 (included) and Q4	7.4.5	
MI.5 MPE ± 3 % for water temperature > 30 °C for flow rate between Q2 (included) and Q4	7.4.5	
MI.6 MPE ± 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	
MI.7.1.1 Electromagnetic immunity	8.1.3 8.12 8.13	
MI.7.1.2 Condition after electromagnetic disturbance	8.1.3 8.12 8.13	
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 — Normative references from Clause 2 of this document and their corresponding European publications

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
ISO 4064-1 OIML R 49-1	ISO 4064-1:2024 OIML R 49-1:2024	Water meters for cold potable water and hot water — Part 1: Metrological and technical requirements	EN ISO 4064-1:2025
ISO 4064-3	ISO 4064-3:2024	Water meters for cold potable water and hot water — Part 3: Test report format	EN ISO 4064-3:2025
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, primarily for equipment-type specimens	EN 60068-2-31:2008
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	IEC 60068-3-4:2002

EN ISO 4064-2:2025 (E)

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
		guidance — Damp heat tests	
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 for 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 measurement techniques — Electrostatic discharge immunity test	None For applicable standard edition see Column 2
IEC 61000-4-3	IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) — Part 4-3: Testing and measurement techniques — Radiated, radio frequency, electromagnetic field immunity test	EN 61000-4-3:2006 and EN IEC 61000-4-3:2020 and EN 61000-4-3:2006/A2:2010 and

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
			EN 61000-4-3:2006/IS1:2009 And EN 61000-4-3:2006/A1:2008 (all Active!)
IEC 61000-4-4	IEC 61000-4-4:2012 LRV	Electromagnetic compatibility (EMC) — Part 4-4: Testing and measurement techniques — Electrical fast transient/burst immunity test	EN 61000-4-4:2012
IEC 61000-4-5	IEC 61000-4-5:2014+AMD1:2017 CSV	Electromagnetic compatibility (EMC) — Part 4-5: Testing and measurement techniques — Surge immunity test	EN 61000-4-5:2014/A1:2017
IEC 61000-4-6	IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) — Part 4-6: Testing and measurement techniques — Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6:2014/AC:2015
IEC 61000-4-11	IEC 61000-4-11:2020 RLV	Electromagnetic compatibility (EMC) — Part 4-11: Testing and measurement techniques — Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11:2004/A1:2017 And EN IEC 61000-4-11:2020/AC:2020-06
IEC 61000-6-1	IEC 61000-6-1:2016 RLV	Electromagnetic compatibility (EMC) — Part 6-1: Generic standards — Immunity for residential, commercial and light-industrial environments	EN IEC 61000-6-1:2019
IEC 61000-6-2	IEC 61000-6-2:2016 RLV	Electromagnetic compatibility (EMC) — Part 6-2: Generic standards — Immunity for industrial environments	None For applicable standard edition see Column 2
OIML D 11:2004		General requirements for electronic measuring instruments	

EN ISO 4064-2:2025 (E)

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
OIML G 13		Planning of metrology and testing laboratories	

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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International Standard

ISO 4064-2

Water meters for cold potable water and hot water —

Part 2: Test methods

Compteurs d'eau potable froide et d'eau chaude —

Partie 2: Méthodes d'essai

Fifth edition 2024-12

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