

SLOVENSKI STANDARD SIST EN ISO 4373:2022

01-junij-2022

Nadomešča:

SIST EN ISO 4373:2009

Hidrometrija - Naprave za merjenje višine gladine vode (ISO 4373:2022)

Hydrometry - Water level measuring devices (ISO 4373:2022)

Hydrometrie - Geräte zur Wasserstandsmessung (ISO 4373:2022)

Hydrométrie - Appareils de mesure du niveau de l'eau (ISO 4373:2022)

Ta slovenski standard je istoveten z. EN ISO 4373:2022

<u> SIST EN ISO 43/3:2022</u>

https://standards.iteh.ai/catalog/standards/sist/dc80581f-107b-4272-8861-c99f359fbacc/sist-en-iso-4373-2022

17.120.20 Pretok v odprtih kanalih Flow in open channels

SIST EN ISO 4373:2022 en

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

EUROPEAN STANDARD

EN ISO 4373

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

ICS 17.120.20

Supersedes EN ISO 4373:2008

English Version

Hydrometry - Water level measuring devices (ISO 4373:2022)

Hydrométrie - Appareils de mesure du niveau de l'eau (ISO 4373:2022)

Hydrometrie - Geräte zur Wasserstandsmessung (ISO 4373:2022)

This European Standard was approved by CEN on 13 March 2022.

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, Turkey and United Kingdom.

SIST EN ISO 4373:2022

https://standards.iteh.ai/catalog/standards/sist/dc80581f-107b-4272-8861-c99f359fbacc/sist-en-iso-4373-2022



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 4373:2022 (E)

Contents	Page
European foreword	

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

EN ISO 4373:2022 (E)

European foreword

This document (EN ISO 4373:2022) has been prepared by Technical Committee ISO/TC 113 "Hydrometry" in collaboration with Technical Committee CEN/TC 318 "Hydrometry" the secretariat of which is held by BSI.

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 October 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

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 4373:2008.

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, Turkey and the United Kingdom.



The text of ISO 4373:2022 has been approved by CEN as EN ISO 4373:2022 without any modification. https://standards.fieh.ai/catalog/standards/sist/dc80581f-107b-4272-8861-c99f359fbacc/sist-en-iso-4373-2022

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

INTERNATIONAL STANDARD

ISO 4373

Fourth edition 2022-03

Hydrometry — Water level measuring devices

Hydrométrie — Appareils de mesure du niveau de l'eau

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 4373:2022

https://standards.iteh.ai/catalog/standards/sist/dc80581f-107b-4272-8861-c99f359fbacc/sist-en-iso-4373-2022



Reference number ISO 4373:2022(E)

ISO 4373:2022(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 4373:2022

https://standards.iteh.ai/catalog/standards/sist/dc80581f-107b-4272-8861-c99f359fbacc/sist-en-iso-4373-2022



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents		Page
Forev	word	iv
Intro	oduction	v
1	Scope	
_	•	
2	Normative references	
3	Terms and definitions	1
4	Instrument specification	
	4.1 Performance parameters	
	4.2 Performance classification	
	4.3 Maximum rate of change	
	4.4 Environment	
	4.4.1 General 4.4.2 Temperature	
	4.4.3 Relative humidity	
	4.5 Timing	
	4.5.1 General	
	4.5.2 Digital	
	4.5.3 Analogue	
5	Recording iTeh STANDARD 5.1 General	
	5.2 Chart recorders PREVIEW 5.3 Data loggers	4
	5.3 Data loggers FREVIEW	4
6	Enclosure (standards.iteh.ai)	4
	(Stallual us.Itell.al)	
7	Installation	
8	Maintenance <u>SIST EN ISO 4373.2022</u>	5
9	Estimation of measurement uncertainty/standards/sist/dc80581f-	5
	9.1 General0.7b-42.72-8861-c99f359fbacc/sist-en-iso-43.73-2022	5
	9.2 Type A uncertainty estimation	
	9.3 Type B uncertainty estimation	
	9.4 Uncertainty in case of low water level conditions	
	9.5 Level measurement datum	
	9.6 Combining primary measurement uncertainties	
	ex A (informative) Types of water level measuring devices	
Anne	ex B (informative) Manually operated measuring devices	22
Anne	ex C (informative) Recording devices	25
Bibli	ography	27

ISO 4373:2022(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by **Sechnical Committee 150/TC. 213** *Hydrometry*, Subcommittee SC 5, *Instruments, equipment and data management*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 318, *Hydrometry*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

https://standards.iteh.ai/catalog/standards/sist/dc80581fThis fourth edition cancels and replaces the third edition (JSQ 4373:2008), which has been technically revised. The main changes are as follows:

- improvements in water level measuring devices have been incorporated;
- the use of mercury has been removed;
- the old <u>Annex A</u> has been divided into three new separate <u>Annexes A</u>, <u>B</u> and <u>C</u>;
- in the new <u>Annex A</u>, the electronic techniques that are currently more commonly used have been brought to the front in order to give them a greater emphasis.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 4373:2022(E)

Introduction

Measuring the level of water surface is very important in hydrometry for the purpose of, among other things, determining flow rates. Information about water levels is also used in operational water management, including the design of dikes and storm surge warning services. Water level information also provides decision-making guidance to shipping activities.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 4373:2022
rds, iteh ai/catalog/standards/sist/dc

https://standards.iteh.ai/catalog/standards/sist/dc80581f-107b-4272-8861-c99f359fbacc/sist-en-iso-4373-2022

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