EESTI STANDARD

Hydrometry - Vocabulary and symbols (ISO 772:2022)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 772:2022 sisaldab Euroopa standardi EN ISO 772:2022 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 772:2022 consists of the English text of the European standard EN ISO 772:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 09.03.2022.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
	Date of Availability of the European standard is 09.03.2022.
Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile <u>standardiosakond@evs.ee</u>.

ICS 01.040.17, 17.120.20

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardimis- ja Akrediteerimiskeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardimis- ja Akrediteerimiskeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autoriõiguse kaitse kohta, võtke palun ühendust Eesti Standardimis- ja Akrediteerimiskeskusega: Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation and Accreditation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation and Accreditation.

If you have any questions about standards copyright protection, please contact the Estonian Centre for Standardisation and Accreditation: Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

EN ISO 772

March 2022

ICS 01.040.17; 17.120.20

Supersedes EN ISO 772:2011

English Version

Hydrometry - Vocabulary and symbols (ISO 772:2022)

Hydrom?rie - Vocabulaire et symboles (ISO 772:2022)

Hydrometrie - Begriffe und Symbole (ISO 772:2022)

This European Standard was approved by CEN on 5 February 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 Lien : 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

European foreword

This document (EN ISO 772:2022) 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 September 2022, and conflicting national standards shall be withdrawn at the latest by September 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 772:2011.

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.

Endorsement notice

The text of ISO 772:2022 has been approved by CEN as EN ISO 772:2022 without any modification.

Page

Contents

Foreword Introduction		iv
2	Normative references	
3	Terms and definitions	
4	Terms related to velocity-area methods	
5	Terms related to flow measurement structures	
6	Terms related to dilution method	
7	Terms related to instruments and equipment	
8	Terms related to sediment transport	
9	Terms related to precipitation	
10	Terms related to snow	
11	Terms related to groundwater	
12	Terms related to uncertainties in hydrometric determinations	
Annex A (informative) Symbols used in hydrometry		
Bibliography		
Index		

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 Technical Committee ISO/TC 113, *Hydrometry*, 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).

This sixth edition cancels and replaces the fifth edition (ISO 772:2011) which has been technically revised. The main changes compared with the previous edition are as follows:

- terms related to precipitation have been added in a new <u>Clause 9</u>;
- additional terms have been added in <u>Clause 10</u>;
- <u>Figures 1</u>, <u>3</u>, <u>4</u>, <u>5</u>, <u>6</u>, <u>9</u>, <u>11</u> and <u>12</u> have been modified and updated.

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 <u>www.iso.org/members.html</u>.

Introduction

In the preparation of this document, the following principles were adopted wherever possible:

- a) to standardize suitable terms and symbols without perpetuating unsuitable ones;
- b) to discard any term or symbol with differing meanings in different countries, or for different people, or for the same person at different times, and to replace that term or symbol by one which has an unequivocal meaning;
- c) to exclude terms which are self-evident.

Terms in existing International Standards have been included as much as possible; however, these terms can be subject to future amendments.

NOTE Similar or identical terms can have separate definitions under the different categories.

It is recognized that it is not possible to produce a complete set of definitions which will be universally acceptable, but it is hoped that the definitions provided and the symbols used will find widespread acceptance and that their use will lead to a better understanding of hydrometric practices.

The terminology entries are presented in systematic order, grouped into sections according to particular methods of determination or in relation to particular subjects. <u>Annex A</u> lists the symbols used in this document.

The structure of each entry is in accordance with the ISO 10241 series. Country codes are in accordance with ISO 3166-1.

with t.

Hydrometry — Vocabulary and symbols

1 Scope

This document defines terms and symbols used in standards in the field of hydrometry.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1

hydrometry

science and practice of measuring the components of the *hydrological cycle* (3.92), including *rainfall* (9.10), *water level* (3.64), flow and *sediment transport* (8.2) of surface waters, and *groundwater* (11.1) characteristics

3.2

hydrology

science that deals with the waters above and below the land surfaces of the Earth, their occurrence, circulation and distribution, their properties and their reaction with the environment

3.3

flow

water flowing on or below the land surface under gravitational influence

3.4

runoff

volume of water flowing through a given channel cross-section related to a given *drainage basin* (3.103) in a defined period of time

3.5

discharge

Q

volume of water flowing through a given channel cross-section in unit time

3.6

current

directed movement of water

3.7

steady flow

flow (3.3) in which parameters [such as *velocity* (3.113), pressure, density and temperature] are constant with respect to time