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Water quality - Minimum requirements for the selection, installation, validation, and operation of continuous measuring devices

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/26

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EUROPEAN STANDARD
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English Version

**Water quality - Minimum requirements for the selection,
installation, validation, and operation of continuous
measuring devices**

Qualité de l'eau - Exigences minimales pour le choix,
l'installation, la validation et l'exploitation de
dispositifs de mesure en continu

Wasserbeschaffenheit - Mindestanforderungen für die
Auswahl, Installation, Validierung und den Betrieb von
kontinuierlichen Messgeräten

This European Standard was approved by CEN on 19 January 2026.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EN 18069:2026 (E)**European foreword**

This document (EN 18069:2026) has been prepared by Technical Committee CEN/TC 230 “Water analysis”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by October 2026, and conflicting national standards shall be withdrawn at the latest by October 2026.

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.

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Introduction

The continuous monitoring of water quality parameters can provide real time information on temporal variability compared with sampling campaigns conducted at fixed intervals which can miss significant events such as a concentration peak during a flood or rainfall episode.

Moreover, in the event of pollution due to industrial accidents or transport on inland waterways for example, it is vital to be able to detect these events as early as possible and react rapidly to limit their impacts on the environment and possible drinking water resources.

Consequently, the choice of having recourse to continuous measuring devices (CMDs) is directly linked to the advantages of obtaining a rapid measurement (a few seconds to a few minutes) at short time intervals (from a few seconds to a few hours) and in most cases in real time. Furthermore, it is possible to use the resulting measurements to automatically trigger actions, such as taking a sample for further analysis and/or stopping pumping of a drinking water resource.

This document is associated with EN 17075 which specifies general requirements and performance test procedures for portable and fixed position continuous measuring devices that are used in an in-line or on-line operating position to measure physical and chemical measurands in water.

Continuous measuring devices are widely used for compliance monitoring purposes under national and European regulations.

EN 18069:2026 (E)**1 Scope**

This document specifies requirements for the selection, installation, validation, and operation of continuous measuring devices CMDs as follows:

- 1) Selection: defining the user requirements, the purposes of the required measurements, associated data quality requirements, and choice of CMDs.
- 2) Installation: verifying a complete and correct delivery of the procured CMD and verifying a correctly functioning on-site installation, operation and communication of the CMD.
- 3) Validation: verifying that the correctly installed CMD meets all of the original defined user requirements.
- 4) Operation: implementing operating and maintenance procedures, processing of data and document traceability.

The overall objective is to obtain representative and reliable measurements when using CMDs to monitor water quality.

This document is applicable to CMDs for monitoring physical and chemical parameters in different types of water.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 17075:2018+A1:2023, *Water quality — General requirements and performance test procedures for water monitoring equipment — Continuous measuring devices*

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