

DIN EN 18069:2026-09 (E)

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

Contents

Page

European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Selection, installation, validation and operation of continuous measuring devices	10
4.1 General	10
4.2 Selection	11
4.2.1 Selection procedure	11
4.2.2 Scope of the user requirements (UR) document	11
4.2.3 Normative references and regulatory requirements	12
4.2.4 Measuring point	12
4.2.5 Infrastructure	12
4.2.6 Environmental conditions	13
4.2.7 Supporting functionalities	13
4.2.8 Calibration and/or adjustment	13
4.2.9 Maintenance operations	14
4.2.10 Data analysis	14
4.2.11 Review process	14
4.3 Installation and verification	15
4.4 Validation	16
4.5 Operation	16
4.5.1 General	16
4.5.2 Calibration / adjustment	17
4.5.3 Maintenance	18
4.5.4 Quality Controls (QC)	19
4.5.5 Post processing of data	20
4.5.6 Document traceability	21
Annex A (informative) Questionnaire relative to the characteristics of a measuring point for water monitoring - example	22
Annex B (informative) Example of calibration criteria, verification procedure and measurement standards for continuous measuring stations for surface water quality monitoring	24
B.1 Calibration criteria	24
B.2 Calibration verification procedure	24
B.3 Measurement standards for calibration and/or adjustment	25
B.3.1 General	25
B.3.2 Types of measurement standard	25
B.3.3 Number and nominal values of the measurement standards	27
Annex C (informative) Method of correcting drifts and examples of data post-processing	28
C.1 Method of correcting drifts based on USGS (2006)	28
C.2 Data confidence index	29
Bibliography	30