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WATER QUALITY KNOWLEDGE

# VIKING-ISE500

Benchtop pH / Ion Meter · ISE / ORP / mV / Temperature · 7.0" Touchscreen

**VIKING-ISE500 Benchtop pH/Ion Meter** is a professional modular electrochemistry analyzer for high-accuracy measurement of pH, ion-selective electrodes (ISE), oxidation-reduction potential (ORP), mV and temperature. The instrument combines a 7.0" color touchscreen, intelligent method and user management, GLP data functions, electrode diagnostics, USB / RS-232 connectivity and IP54 protection for demanding laboratory and water-quality workflows.

BENCHTOP PH / ION METER

PH / ISE / ORP / MV

TEMPERATURE

7.0" TOUCHSCREEN

±0.002 PH

1-6 POINT ISE CALIBRATION

GLP DATA MANAGEMENT

USB / RS-232

1000 DATA SETS / PARAMETER

IP54

Document type: **Technical Specification Sheet**

Product family: **Benchtop Electrochemistry / Water Quality Meter**

Model: **VIKING-ISE500** · SKU: **PRO2561**

Expected HTML path: [colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-ISE500.html](http://colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-ISE500.html)

Expected PDF path: [colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-ISE500.pdf](http://colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-ISE500.pdf)

Format: **A4 landscape** · **COLO.Science TechSpec v2.4 with navigation links**



VIKING-ISE500 · benchtop pH / ISE / ORP / mV / temperature meter · main unit

MODEL / SKU

**VIKING-ISE500**  
**PRO2561**

ADDRESS / HQ

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**SI-3255, Slovenia**

CONTACT

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ISE / PH KNOWLEDGE

# VIKING-ISE500 · technical specification

Benchtop analyzer for pH, ion-selective electrodes, ORP, mV and temperature measurement

PH -2.000 TO 20.000

ISE 1.00E-9 TO 9.99E9

ORP / MV ±2000.00

TEMP. -5 TO 130°C

DIRECT / ADDITION / GRAN PLOT

— Modular benchtop platform for high-precision pH and ion measurement

## Product Overview

### Application profile

**Ion-selective electrode work:** supports direct reading, standard addition, sample addition and Gran plot techniques for ISE workflows.

**Water quality laboratories:** suitable for fluoride, ammonium, nitrate and other ion methods where appropriate electrodes and standards are selected.

**Research and method development:** flexible method, electrode and user management for laboratories developing or validating electrochemical procedures.

**Routine QC:** combines pH, ORP / mV and temperature measurement with GLP data storage and stable reading modes.

### Key features

**pH performance:** -2.000 to 20.000 pH range, 0.001 pH maximum resolution and ±0.002 pH accuracy.

**ISE performance:** 1.00E-9 to 9.99E9 range with 4 significant digits and ±0.3% accuracy.

**ISE calibration:** 1–6 calibration points with support for direct reading, standard / sample addition and Gran plot.

**Measurement modes:** Auto-read, timed-read and continuous-read modes with Reading / Stable / Locked prompts.

**Data capacity:** up to 1000 data sets per parameter with GLP-oriented data functions.

**Expansion note:** optional DO module supports barometric and manual salinity compensation where selected.

### Design and handling advantage

**Touchscreen workflow:** 7.0" color touchscreen supports intuitive operation, method selection and measurement review.

**Traceability:** user management, calibration management, method management, data review and audit-oriented functions support controlled laboratory work.

**Electrode diagnostics:** automatic slope and offset display, calibration reminder and slope-limit alert help maintain measurement reliability.

**Connectivity:** USB and RS-232 interfaces support data transfer, printing or connection to laboratory reporting workflows.

### Core technical summary

Parameter	Specification
Model	VIKING-ISE500
SKU	PRO2561
Instrument type	Benchtop pH / ion / ORP / mV / temperature meter
Display	7.0" color touchscreen
pH range	-2.000 to 20.000 pH
pH accuracy	±0.002 pH
ISE range	1.00E-9 to 9.99E9
ORP / mV range	-2000.00 to 2000.00 mV
Data logging	1000 data sets per parameter · GLP functions
Protection	IP54

PH ACCURACY

±0.002 pH

ISE CALIBRATION

1–6 points

DATA MEMORY

1000 sets / parameter

CONNECTIVITY

USB / RS-232

## Technical Specifications

### pH, ISE, ORP / mV and temperature performance

Parameter	Specification
pH range	-2.000 to 20.000 pH
pH resolution	0.1 / 0.01 / 0.001 pH
pH accuracy	±0.002 pH
pH calibration	1–6 points; NIST / DIN / GB buffer groups; custom buffer group support
ISE range	1.00E-9 to 9.99E9; 4 significant digits
ISE accuracy	±0.3%
ISE calibration	1–6 points
ISE methods	Direct reading, standard addition, sample addition and Gran plot
ISE units	µg/L, mg/L, g/L, mmol/L and pX
pX range	-2.000 to 20.000 pX
pX accuracy	±0.002 pX
ORP / mV range	-2000.00 to 2000.00 mV
ORP / mV resolution	0.1 / 0.01 mV
ORP / mV accuracy	±0.03% FS
Temperature range	-5 to 130°C
Temperature resolution	0.1°C
Temperature accuracy	±0.1°C
Temperature compensation	ATC / MTC

### System, data and connectivity

Parameter	Specification
Display	7.0" color touchscreen.
Operating system	Intelligent system with user, electrode, method, calibration and data management.
Reading modes	Auto-read Fast / Medium / Slow, timed-read and continuous-read.
Reading prompts	Reading / Stable / Locked status prompts.
Electrode diagnostics	Slope and offset display, calibration reminder and slope-limit alert.
Data capacity	1000 data sets per parameter.
GLP support	Data review, comparison, recalculation and traceability-oriented data functions.
Optional module note	DO module available depending on configuration; barometric and manual salinity compensation supported when selected.
Connectivity	USB and RS-232.
Protection rating	IP54.
Power supply	AC adapter, 100–240 V input / DC 24 V output.
Dimensions	280 × 280 × 130 mm.
Weight	Approx. 2500 g / 5.5 lb.
Expected HTML	<a href="#">Open VIKING-ISE500 HTML specification</a>
Expected PDF	<a href="#">Open VIKING-ISE500 PDF datasheet</a>

#### Specification note

**Electrode selection:** final ISE electrode, reference electrode and standard solution set must match the target ion and sample matrix.

**Calibration:** confirm calibration points, ionic strength adjustment, buffer group and reporting unit according to the laboratory method.

**Configuration:** optional modules, electrodes and accessories should be confirmed in the manufacturer-approved quotation.

Technical values are provided for product selection and orientation. Final delivered configuration, electrode type, accessory set, optional module selection and documentation should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

## Standard Delivery, Configuration and Visual Support



VIKING-ISE500 · benchtop touchscreen pH / ISE / ORP / mV / temperature meter

### Typical standard delivery / configuration-dependent package

**VIKING-ISE500 main unit:** benchtop touchscreen analyzer, SKU PRO2561.

**pH / ISE measurement module:** installed or selected according to the ordered configuration.

**Electrode holder and power adapter:** bench setup accessories for routine measurement work.

**Calibration solutions / starter set:** provided according to selected package and application; ion standards depend on target ion.

**USB cable:** for PC / printer connection where selected or included.

**User documentation:** multilingual user manual and quick-start guidance.

### Product image references



Main unit · 7.0" touchscreen benchtop pH / ion meter



Specification path · WaterQualityP / VIKING-ISE500

### Configuration notice — delivery depends on selected options

pH / ISE meters may be delivered in different configurations depending on the application, selected electrodes, optional modules, accessories and regional package. This document is for general technical orientation only. The exact delivered configuration must be confirmed in the official quotation and manufacturer-approved specification.

## Selection and Use Notes

### For ISE measurement

**Target ion:** define the ion, expected range, required unit and sample matrix before selecting electrode and standards.

### For pH / ORP workflows

**pH calibration:** select NIST, DIN, GB or custom buffers according to reporting and laboratory SOP requirements.

### For GLP workflows

**Traceability:** use user, method, calibration and data management functions for controlled measurement records.

MANUFACTURER AND SUPPORT

## COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

**Selection guidance:** Send the target ion, expected concentration range, sample matrix, required reporting unit, electrode preference, pH / ORP requirements and any GLP or data-export requirements. COLO.Science can help confirm the correct VIKING-ISE500 configuration and accessory set.

QUICK CONTACT

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 **+386 64 222 724**

 **Water quality instruments**

COLO.SCIENCE · VIKING-ISE500 BENCHTOP PH / ION METER SUPPORT

## Need help selecting the correct pH / ISE measurement configuration?

Send the target ion, expected concentration range, sample type, calibration approach, electrode type and reporting requirement. COLO.Science can help confirm whether VIKING-ISE500 is the correct platform for your laboratory, water-quality or method-development workflow.

Open product category

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Open PDF datasheet

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Technical specification path: [VIKING-ISE500 HTML technical specification](#)

**Official configuration and manufacturer-confirmed specification notice:**

This technical specification is provided for orientation, product selection and general information only. It does not represent the final binding technical specification, delivered configuration, accessory set, procurement requirement or acceptance criterion for a specific unit. The final official technical specification is only the specification confirmed by the manufacturer and issued for the exact configuration through an official COLO.Science quotation, proforma invoice, contract document, order confirmation or manufacturer-approved technical offer. Any values, options, accessories or configurations shown in this document must be verified for the specific delivery and should not be used as an exclusion or elimination criterion in procurement procedures without written manufacturer confirmation.