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PORTABLE PH / ION METERS

WATER QUALITY KNOWLEDGE

# VIKING-ISE510

Portable pH / Ion / ORP / mV / Temperature Meter with 4.3" Touchscreen

**VIKING-ISE510 Portable pH/Ion Meter** is a field-ready electrochemistry instrument for **pH, ion-selective electrode measurement, pX, mV/ORP and temperature**. The instrument combines a 4.3" color touchscreen, smart operating system, GLP-oriented data memory, USB communication, automatic or manual temperature compensation and IP65 portable protection for laboratory, plant and field water-quality workflows.

PORTABLE PH / ION METER

PH -2.000 TO 20.000

ISE CONCENTRATION

PX

MV / ORP

TEMPERATURE

4.3" TOUCHSCREEN

1-8 POINT PH CALIBRATION

1-6 POINT ISE CALIBRATION

GLP 1000 GROUPS

USB 2.0

IP65

Document type: **Technical Specification Sheet**

Product family: **Portable Electrochemistry / Water Quality pH-Ion Meter**

Model: **VIKING-ISE510** · SKU: **PRO4754**

Product page: [colo.si/product/viking-ise510-ph-ion-meter/](http://colo.si/product/viking-ise510-ph-ion-meter/)

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



VIKING-ISE510 · portable pH / ion / ORP / mV / temperature meter · main unit

MODEL / SKU

**VIKING-ISE510**  
**PRO4754**

ADDRESS / HQ

**Polje ob Sotli 4**  
**SI-3255, Slovenia**

CONTACT

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WATER QUALITY KNOWLEDGE

# VIKING-ISE510 · technical specification

Portable pH/ion meter for pH, pX, ISE concentration, ORP/mV and temperature

PH  $\pm 0.002$  PH

ISE  $\pm 0.3\%$

MV  $\pm 0.1$  MV /  $\pm 0.03\%$

TEMP. -10 TO 135 °C

— Rugged field workflow for ion-selective and pH measurements

## Product Overview

### Application profile

**Water quality:** designed for pH, ion-selective electrode, ORP/mV and temperature checks in water, wastewater and process samples.

**Field and laboratory use:** portable IP65 unit with 4.3" touchscreen, rechargeable battery and carrying-case workflow.

**Ion-specific analysis:** supports ISE concentration measurement with selectable units and built-in ion methods for routine analysis.

**Traceable QA/QC:** suitable for environmental monitoring, industrial checks, fertilizer/food QC, education and chemical research.

### Design and handling advantage

**Touchscreen workflow:** 4.3" color touchscreen with direct method, calibration, electrode and data navigation.

**Reading modes:** Auto-read Fast / Medium / Slow, timed-read and continuous-read modes.

**Endpoint control:** Reading, Stable and Locked prompts with Auto-Hold for practical field recording.

**Connectivity:** USB 2.0 output for flash drive, PC or scanner workflows.

### Key features

**Parameters:** pH, ISE concentration, pX, ORP/mV and temperature.

**pH performance:** -2.000 to 20.000 pH range with 0.001 pH resolution and  $\pm 0.002$  pH accuracy.

**ISE performance:** 1.000e-9 to 9.999e+9 concentration range, up to 4 significant digits and  $\pm 0.3\%$  accuracy.

**Calibration:** up to 8-point pH calibration and up to 6-point ISE / pX calibration.

**Portable protection:** IP65 waterproof housing for field work and daily mobile use.

### Core technical summary

| Parameter           | Specification   |
|---------------------|---|
| Model               | VIKING-ISE510   |
| SKU                 | PRO4754   |
| Instrument type     | Portable pH / ion-selective electrode meter                     |
| Measured parameters | pH, ISE, pX, mV/ORP, temperature                                |
| Display             | 4.3" color touchscreen  |
| Data storage        | 1000 groups per parameter; GLP features supported               |
| Inputs              | pH electrode BNC Q9; temperature probe 4-pin aviation connector |
| Protection          | IP65 portable unit  |

PH ACCURACY

$\pm 0.002$  pH

ISE ACCURACY

$\pm 0.3\%$

DATA MEMORY

1000 groups / parameter

PROTECTION

IP65

**pH / mV / ORP / pX / ISE Specifications**

**pH, mV / ORP and pX measurement**

| Parameter                | Range / resolution / accuracy           | Calibration / notes                    |
|--------------------------|---|--|
| pH range                 | -2.000 to 20.000 pH                     | Up to 8-point calibration              |
| pH resolution            | 0.1 / 0.01 / 0.001 pH                   | Selectable according to workflow       |
| pH accuracy              | ±0.002 pH                               | High-precision portable pH measurement |
| pH buffer groups         | USA, NIST, MERK, JIS, GB, DIN           | User-defined buffers supported         |
| mV / ORP range           | -2000.00 to 2000.00 mV                  | For ORP and millivolt measurement      |
| mV resolution            | 0.1 / 0.01 mV                           | Selectable resolution                  |
| mV accuracy              | ±0.1 mV or ±0.03%, whichever is greater | According to instrument specification  |
| EH ORP mode              | Yes                                     | ORP calibration: 1 custom point        |
| pX range                 | -2.000 to 20.000 pX                     | Up to 6-point calibration              |
| pX resolution / accuracy | 0.1 / 0.01 / 0.001 pX · ±0.002 pX       | For ion-selective workflows            |

**Reading and temperature workflow**

| Function                 | Technical note  |
|--------------------------|---|
| Reading modes            | Auto-read Fast / Medium / Slow, timed-read and continuous-read.             |
| Reading prompts          | Reading, Stable and Locked status prompts with Auto-Hold endpoint function. |
| Temperature compensation | ATC / MTC supported for stable routine measurements.                        |
| Data handling            | GLP-oriented storage for 1000 groups per parameter with USB output.         |

**ISE concentration measurement**

| Parameter       | Specification   | Notes  |
|-----------------|---|--|
| ISE range       | 1.000e-9 to 9.999e+9  | Concentration measurement by selected ion method |
| ISE units       | mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb  | Selectable concentration units                   |
| ISE resolution  | Up to 4 significant digits  | Displayed according to selected method and range |
| ISE accuracy    | ±0.3%   | Method and electrode dependent                   |
| ISE calibration | Up to 6 points  | Supports routine calibration curves              |
| ISE methods     | Direct Reading, Standard Addition, Sample Addition, GRAN  | 10+ built-in methods and user-defined options    |
| Built-in ions   | F <sup>-</sup> , Cl <sup>-</sup> , Br <sup>-</sup> , I <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , BF <sub>4</sub> <sup>-</sup> , NH <sub>4</sub> <sup>+</sup> , K <sup>+</sup> , Na <sup>+</sup> | Common anions and cations supported              |
| Additional ions | Ca <sup>2+</sup> , Cu <sup>2+</sup> , Pb <sup>2+</sup> , Ag <sup>+</sup> , etc.   | Final electrode/application selection required   |



4.3" touchscreen display · method navigation, calibration and measurement control

**PH CALIBRATION**  
Up to 8 points

**ISE CALIBRATION**  
Up to 6 points

**METHODS**  
Direct / Addition / GRAN

Technical values are provided for product selection and orientation. Final electrode type, calibration method, ISE method and accessory configuration should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

## Temperature / Interface / System Specifications

### Temperature and system data

| Parameter               | Specification  | Notes   |
|-------------------------|--|---|
| Temperature range       | -10 to 135 °C / 14 to 275 °F                           | For temperature measurement and compensation                |
| Temperature resolution  | 0.1 °C / °F  | Selectable °C / °F display                                  |
| Temperature accuracy    | ±0.1 °C  | According to instrument specification                       |
| pH electrode input      | BNC (Q9)   | For pH / ORP / ISE electrode connection depending on method |
| Temperature probe input | 4-pin aviation connector                               | For ATC temperature probe                                   |
| USB output              | USB 2.0 flash / PC / scanner                           | For data transfer and workflow support                      |
| Auto power-off          | 300 / 600 / 1200 / 1800 / 3600 s, off                  | Power-saving settings                                       |
| Clock and logs          | Date & time; GLP-oriented logs                         | Supports traceable measurement records                      |
| Power supply            | Rechargeable Li battery, AC adapter 100–240 V / DC 5 V | Portable and bench charging workflow                        |
| Dimensions / weight     | 90 × 255 × 40 mm · 500 g                               | Main unit only  |
| Protection              | IP65   | Waterproof portable housing                                 |



Connector workflow image · BNC Q9 and aviation-style interfaces for portable electrochemistry instruments

### Workflow advantages

**Smart OS:** user, calibration, electrode, method, data management and logs for GLP-oriented measurement records.

**Calibration flexibility:** up to 8 points for pH and up to 6 points for ISE / pX allow precise curve setup over a wide working range.

**Field usability:** 4.3" color touchscreen, battery operation, IP65 housing and carrying-case workflow simplify outdoor and plant measurements.

**Ion analysis:** direct reading, standard addition, sample addition and GRAN methods support common laboratory ion-selective workflows.

### Applications and industries

| Area                          | Typical use   |
|-------------------------------|---|
| Drinking water and wastewater | pH, ORP and ion checks in routine water-quality workflows.            |
| Industrial monitoring         | Process samples, plant checks and environmental compliance support.   |
| Fertilizer / food QC          | Ion-specific workflows depending on electrode and sample preparation. |
| Education and research        | Portable pH, pX, mV and ISE teaching or method development.           |

### COLO.Science knowledge support

**Method support:** product selection, electrode compatibility and configuration should be reviewed before quotation.

**Knowledge hub:** water-quality articles and application notes are available on [COLO.Science Water Quality](#).

**Quotation workflow:** final kit contents, electrodes, buffers/standards and accessories are confirmed in the official COLO.Science offer.

## Standard Delivery / Configuration / Contact



Carrying case / accessory workflow image · final contents depend on selected configuration and quotation

### Typical included items

**Main unit:** VIKING-ISE510 portable pH/Ion meter.

**Handling accessories:** electrode holder, silicone rubber protective case, wristbands and touch pen.

**Transport:** carrying case for portable field or plant workflow.

**Power and communication:** USB cable, rechargeable Li-ion battery and AC adapter.

**Documentation:** multilingual user manual and quick-start guide.

### Electrode and reagent note

**pH and ISE electrodes:** ordered separately depending on the measured ion, sample matrix and application method.

**Calibration standards:** buffers, ionic standards and ISA/reagent sets should be selected according to the electrode and method.

**Configuration control:** exact kit contents may vary by region, stock and selected options.

### Configuration notice — delivery depends on selected options

Portable pH/ion meters may be delivered in different configurations depending on the application and selected accessories. The official quotation or manufacturer-confirmed document defines the exact configuration, included components and available options for each model/variant. Content shown in this technical sheet is provided for general informational purposes only and may not represent the final delivered configuration. **Specifications may change without notice.**

COLO.SCIENCE · PRODUCT AND QUOTATION SUPPORT

## VIKING-ISE510 Portable pH/Ion Meter

For electrode selection, ISE method selection, accessory configuration and official quotation, contact COLO.Science. Use the product page and request-quote link as controlled navigation points from this technical document.

CONTACT

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NEXT STEP

## Configure VIKING-ISE510 for your ion-selective workflow

Confirm electrodes, standards, calibration method, accessories and delivery configuration before purchase. COLO.Science can support selection for water, wastewater, industrial and laboratory applications.

[Open product page](#)

[Request quotation](#)

[Download PDF](#)

HTML technical sheet: <https://colo.si/wp-content/images/TechSpec/pHP/VIKING-ISE510.html> · Knowledge hub: [COLO.Science Water Quality](#)

**Disclaimer:** This COLO.Science technical specification sheet is an informational and selection-support document. It is not a binding tender, contractual specification or certified manufacturer declaration. Final specifications, included accessories, compatible electrodes, standards, reagents, calibration methods, warranty terms and delivery configuration must be confirmed in the official COLO.Science quotation or manufacturer-confirmed offer. Images may show optional accessories or related portable-meter workflow components. COLO.Science may update product data, appearance and configuration without prior notice.