

PRODUCT PAGE

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PORTABLE PH / ION METERS

WATER QUALITY KNOWLEDGE

VIKING-ISE310

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

VIKING-ISE310 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 high-contrast backlit touchscreen, GLP-compliant data memory, USB output, automatic or manual temperature compensation and IP65 splash-proof protection for laboratory, plant and field water-quality workflows.

PORTABLE PH / ION METER

PH -2.00 TO 20.00

ISE CONCENTRATION

PX

MV / ORP

TEMPERATURE

4.3" TOUCHSCREEN

5-POINT PH CALIBRATION

5-POINT ISE CALIBRATION

GLP 1000 GROUPS

USB OUTPUT

IP65

Document type: **Technical Specification Sheet**

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

Model: **I310T** · SKU: **PRO6090**

Product page: colo.si/product/viking-ise310-ph-ion-meter/

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



VIKING-ISE310 · portable pH / ion / mV / ORP / pX / temperature meter · main unit

MODEL / SKU

VIKING-ISE310
PRO6090

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PRODUCT PAGE

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WATER QUALITY KNOWLEDGE

VIKING-ISE310 · technical specification

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

PH ±0.01 PH

ISE ±0.5%

MV ±0.3 MV / ±0.1%

TEMP. -5 TO 110 °C

— Splash-proof field workflow for ion-selective and pH measurements

Product Overview

Application profile

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

Field and laboratory use: portable IP65 splash-proof unit with 4.3" touchscreen, rechargeable Li-ion 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 high-contrast backlit touchscreen with direct method, calibration 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 output for PC and printer workflows.

Key features

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

pH performance: -2.00 to 20.00 pH range with 0.1 / 0.01 pH resolution and ±0.01 pH accuracy.

ISE performance: 1.000×10^{-9} to 9.999×10^9 concentration range, up to 4 significant digits and ±0.5% accuracy.

Calibration: up to 5-point pH calibration and up to 5-point ISE / pX calibration.

Portable protection: IP65 splash-proof housing for field work and daily mobile use.

Core technical summary

Parameter	Specification
Model	I310T
SKU	PRO6090
Instrument type	Portable pH / ion-selective electrode meter
Measured parameters	pH, Ion (ISE), mV/ORP, pX, temperature
Display	4.3" color high-contrast backlit touchscreen
Data storage	1000 groups; GLP-compliant
Inputs	pH electrode BNC Q9; temperature probe 4-pin aviation connector
Protection	IP65 splash-proof portable unit

PH ACCURACY

±0.01 pH

ISE ACCURACY

±0.5%

DATA MEMORY

1000 groups

PROTECTION

IP65

pH / mV / ORP / pX / ISE Specifications

pH, mV / ORP and pX measurement

Parameter	Range / resolution / accuracy	Calibration / notes
pH range	-2.00 to 20.00 pH	Up to 5-point calibration
pH resolution	0.1 / 0.01 pH	Selectable according to workflow
pH accuracy	±0.01 pH	Portable pH measurement
pH buffer groups	NIST, GB, USA, DIN	Automatic buffer recognition
mV / ORP range	-2000.0 to +2000.0 mV	For ORP and millivolt measurement
mV resolution	0.1 mV	According to instrument specification
mV accuracy	±0.3 mV or ±0.1%	According to instrument specification
ORP workflow	mV / ORP measurement supported	Electrode and method dependent
pX range	-2.00 to 20.00 pX	Up to 5-point calibration
pX resolution / accuracy	0.1 / 0.01 pX · ±0.02 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-compliant storage for 1000 groups with USB output.

ISE concentration measurement

Parameter	Specification	Notes
ISE range	1.000 × 10 ⁻⁹ to 9.999 × 10 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	±0.5%	Method and electrode dependent
ISE calibration	Up to 5 points	Supports routine calibration curves
ISE methods	Direct Reading, Standard Addition, Sample Addition, GRAN	Built-in methods and user-defined options
Built-in ions	F ⁻ , Cl ⁻ , Br ⁻ , I ⁻ , NO ₃ ⁻ , BF ₄ ⁻ , NH ₄ ⁺ , K ⁺ , Na ⁺ , Ca ²⁺ , Cu ²⁺ , Pb ²⁺ , Ag ⁺	Common anions and cations supported
Additional methods	Additional user-defined methods supported	Final electrode/application selection required



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

PH CALIBRATION
Up to 5 points

ISE CALIBRATION
Up to 5 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	-5 to 110 °C / 23 to 230 °F	For temperature measurement and compensation
Temperature resolution	0.1 °C / 0.1 °F	Selectable °C / °F display
Temperature accuracy	±0.2 °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	PC, Printer	For data output and reporting 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-ion battery, AC adapter 100–240 V input, DC 5 V output	Portable and bench charging workflow
Dimensions / weight	90 × 255 × 40 mm · 500 g (1.1 lb)	Main unit only
Carton dimensions	410 × 330 × 165 mm	Package specification
Gross weight	5.5 kg	Package specification
Protection	IP65	Splash-proof field-ready housing



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

Workflow advantages

GLP workflow: calibration, method, data storage and reading status prompts support traceable measurement records.

Calibration flexibility: up to 5 points for pH and up to 5 points for ISE / pX allow routine curve setup over the selected working range.

Field usability: 4.3" color touchscreen, Li-ion battery operation, IP65 splash-proof 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.



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

Typical included items

Main unit: VIKING-ISE310 portable pH/Ion meter, model I310T.

Power supply: rechargeable Li-ion battery and AC adapter 100–240 V input / DC 5 V output.

Connectivity: USB output for PC or printer workflow, depending on final kit configuration.

Transport: portable carrying-case workflow may be configured for field or plant use.

Documentation: user documentation and final accessory list are confirmed in the official quotation.

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-ISE310 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.

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NEXT STEP

Configure VIKING-ISE310 for your pH and 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.

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HTML technical sheet: <https://colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-ISE310.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.