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# VIKING-PH110

Portable pH / mV Meter · 3.5" LCD · MTC · IP65

**VIKING-PH110 Portable pH Meter** is a compact portable pH/mV instrument for routine laboratory and field measurements. It combines a 3.5" backlit LCD, IP65 protection, NIST calibration in 1–2 points, manual temperature compensation, continuous reading, auto power-off and a rechargeable Li battery in a practical rugged housing for everyday pH and mV measurement work.

PORTABLE PH METER

PH / MV

3.5" LCD

±0.03 PH

1–2 POINT CALIBRATION

NIST BUFFERS

MTC

CONTINUOUS READING

RECHARGEABLE LI BATTERY

IP65

Document type: **Technical Specification Sheet**

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

Model: **VIKING-PH110**

Product page: [colo.si/product/viking-ph110-portable-ph-meter/](https://colo.si/product/viking-ph110-portable-ph-meter/)

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



VIKING-PH110 · portable pH / mV meter · main unit

MODEL

**VIKING-PH110**  
Portable pH/mV

ADDRESS / HQ

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SI-3255, Slovenia

CONTACT

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PH KNOWLEDGE

# VIKING-PH110 · technical specification

Portable pH/mV meter for field checks, education and routine laboratory measurement

PH RANGE 0.00 TO 14.00

MV ±1400

NIST 4.01 / 7.00 / 10.01

MTC

CONTINUOUS READING

— Simple portable pH and mV measurement with IP65 protection

## Product Overview

### Application profile

**Water quality:** suitable for routine water testing, field checks, environmental sampling and general laboratory pH measurements.

**Field and laboratory use:** portable format with IP65 housing for mobile work, education and bench operation.

**pH and mV measurement:** designed for acidity measurement and redox potential checks in simple routine workflows.

**Entry professional model:** practical configuration for users who need a robust pH/mV meter without advanced touchscreen functions.

### Design and handling advantage

**Clear display:** 3.5" backlit LCD for easy reading of values and Measuring / Stable messages.

**Portable protection:** IP65 housing supports outdoor handling, dust resistance and moisture-prone environments.

**Simple calibration:** 1–2 point calibration with automatic NIST buffer recognition.

**Power management:** rechargeable Li battery and adjustable auto power-off support field operation.

### Key features

**pH measurement:** 0.00 to 14.00 pH range, 0.01 pH resolution and ±0.03 pH accuracy.

**mV measurement:** -1400.0 to 1400.0 mV range with 1 mV resolution and ±0.2% FS accuracy.

**Calibration:** 1–2 point NIST buffer calibration with 4.01 / 7.00 / 10.01 buffers.

**Temperature compensation:** manual temperature compensation (MTC).

**Reading workflow:** continuous reading with Measuring / Stable on-screen messages.

**Protection:** IP65 housing and rechargeable Li battery for portable operation.

### Core technical summary

Parameter	Specification
Model	VIKING-PH110
Instrument type	Portable pH / mV meter
Display	3.5" LCD with backlight
pH range	0.00 to 14.00 pH
pH accuracy	±0.03 pH
mV range	-1400.0 to 1400.0 mV
Calibration	1–2 points · NIST recognition
Temperature compensation	MTC
Protection	IP65

PH ACCURACY

±0.03 pH

CALIBRATION

1–2 points · NIST

READ MODE

Continuous

PROTECTION

IP65

## Technical Specifications

### Measurement ranges and performance

Parameter	Specification
pH range	0.00 to 14.00 pH
pH resolution	0.01 pH
pH accuracy	±0.03 pH
pH calibration	1–2 points
Buffer recognition	NIST buffer recognition
NIST buffers	4.01 / 7.00 / 10.01
mV range	-1400.0 to 1400.0 mV
mV resolution	1 mV
mV accuracy	±0.2% FS
Temperature compensation	Manual temperature compensation (MTC)
Read mode	Continuous
On-screen messages	Measuring / Stable

### Operation and supplied accessories

Item	Technical note
Electrode	PRO6135 pH composite electrode.
Buffers	NIST buffers 4.01 / 7.00 / 10.01, 50 mL each.
Holder	Electrode holder included.
Protection	Silicone rubber case included.
Wrist straps	Included for portable handling.
Carrying case	Optional accessory; not included in the standard price unless confirmed in quotation.

### System, connection and power

Parameter	Specification
Display	3.5" LCD with backlight.
Electrode connection	BNC / Q9 connector.
Backlight	Yes.
Auto power-off	300 / 600 / 1200 / 1800 / 3600 seconds, or OFF.
Factory reset	Supported.
Power supply	Rechargeable Li battery; AC adapter 100–240 V input, 5 V DC output.
Protection rating	IP65.
Dimensions	80 × 225 × 35 mm.
Net weight	400 g / 0.88 lb.
Expected HTML	<a href="#">Open VIKING-PH110 HTML TechSpec</a>
Expected PDF	<a href="#">Open VIKING-PH110 PDF datasheet</a>

#### Specification note

**Temperature compensation:** VIKING-PH110 uses manual temperature compensation (MTC), not automatic temperature compensation.

**Carrying case:** the carrying case image is shown only as an optional transport accessory and is not included in the standard price unless stated in the offer.

**Field use:** IP65 protection supports portable work; rinse, dry and store the electrode according to laboratory procedure.

Technical values are provided for product selection and orientation. Final delivered configuration, accessory set and documentation should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer. Specifications may change without notice.

**Supplied Accessories, Optional Carrying Case and Visual Support**



VIKING-PH110 · optional carrying case · not included in standard price

**Standard delivery and optional configuration**

**Main instrument:** VIKING-PH110 portable pH/mV meter with 3.5” backlit LCD.

**Included electrode:** PRO6135 pH composite electrode for routine pH measurement.

**Included buffers:** NIST buffer solutions 4.01 / 7.00 / 10.01, 50 mL each.

**Included accessories:** electrode holder, silicone rubber case and wrist straps.

**Optional carrying case:** transport case can be added for field work, storage and mobile use. It is not included in the standard price unless confirmed in the quotation.

**Product image references**



Main unit · portable pH / mV meter



Optional carrying case · not included in standard price

**Important commercial note — optional carrying case**

The carrying case image is used to show a possible transport configuration. The case is optional and must be listed separately in the quotation if required. It should not be interpreted as included in the standard product price unless explicitly confirmed by COLO.Science.

**Selection and Use Notes**

**For routine pH work**

**Calibration:** use NIST buffers 4.01 / 7.00 / 10.01 according to the expected sample range.

**MTC:** record or set temperature manually according to the method used.

**For field use**

**Protection:** IP65 housing supports mobile operation in dust and moisture-prone environments.

**Transport:** optional carrying case is recommended when instrument and buffers are moved frequently.

**For education and QA/QC**

**Simple workflow:** continuous reading and Measuring / Stable prompts simplify user training.

**Basic documentation:** record calibration, buffer lot, sample ID and electrode condition in the lab log.

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MANUFACTURER AND SUPPORT

## COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

**Selection guidance:** Send the sample type, expected pH range, field/laboratory use case, required accessories and whether the optional carrying case should be included. COLO.Science can help confirm the correct VIKING-PH110 configuration and accessory set for your measurement workflow.

QUICK CONTACT

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COLO.SCIENCE · VIKING-PH110 PORTABLE PH / MV METER SUPPORT

## Need help selecting the correct portable pH meter configuration?

Send the sample matrix, calibration requirement, required accessories and whether you need the optional carrying case. COLO.Science can help confirm whether VIKING-PH110 is the correct configuration for your water quality, educational, field or QA/QC workflow.

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**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. Specifications may change without notice. The optional carrying case is not included in the standard price unless explicitly confirmed in the commercial offer.