

VIKING-EC110

Portable Conductivity Meter • EC • 3.5" LCD • MTC • IP65

VIKING-EC110 Portable Conductivity Meter is a simple, rugged portable conductivity meter for routine EC checks in the field, in education and in the laboratory. It combines a 3.5" backlit LCD, conductivity measurement from 0.00 $\mu\text{S}/\text{cm}$ to 100 mS/cm ($\pm 1.0\%$ FS), 1-point calibration with settable cell constant, manual temperature compensation, a rechargeable Li battery and IP65 protection.

PORTABLE CONDUCTIVITY METER

EC

3.5" LCD

$\pm 1.0\%$ FS

CALIBRATION 1 POINT

MTC

IP65

Document type: **Technical Specification Sheet**

Product: **VIKING-EC110 Portable Conductivity Meter**

SKU: **PRO6064**

Format: **A4 landscape • 5 pages**

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ELECTROCHEMISTRY — OVERVIEW

ELECTROCHEMISTRY CATALOGUE

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VIKING-EC110 • Portable Conductivity Meter



VIKING-EC110

Portable Conductivity Meter

Operation guide

Installation • settings • cell constant calibration • measurement



► Watch the operation video (4:03) • installation, settings, cell constant calibration and measurement

MODEL / SKU

VIKING-EC110
PRO6064

ADDRESS / HQ

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VIKING-EC110 • technical specification

Entry-level portable meter for EC measurement

EC 0.00 MS/CM...100 MS/CM

±1.0 % FS

CALIBRATION 1 POINT

MTC

— Reliable portable conductivity measurement for field and laboratory use

Product Overview

Application profile

Water quality: drinking water, wastewater, surface and process water.

Education and training: simple operation for students, training labs and calibration practice.

Field and on-site: compact IP65 housing for sampling points, rivers, wells and plants.

Process checks: quick conductivity checks in production, cleaning and quality control.

Key features

Conductivity: 0.00 µS/cm to 100 mS/cm, ±1.0 % FS, reference 25 °C.

Temperature compensation: manual (MTC) — the meter has no temperature sensor input.

Reading modes: Continuous.

Connection: 5-pin electrode input.

Protection: IP65 housing and rechargeable Li battery.

Core technical summary

Parameter	Specification
Model	VIKING-EC110
SKU	PRO6064
Instrument type	Portable Conductivity Meter
Display	3.5" LCD with backlight
Conductivity range	0.00 µS/cm to 100 mS/cm
Conductivity accuracy	±1.0 % FS
Calibration	1 point
Temperature compensation	MTC (manual)
Protection	IP65

Design and handling advantage

Clear display: 3.5" LCD with backlight with Reading / Stable prompts.

Calibration: 1-point calibration with 1413 µS/cm standard; cell constant settable.

Portable protection: IP65 housing, silicone case and wristband for one-hand work.

Power management: rechargeable Li battery, auto power-off and factory reset.

EC ACCURACY

±1.0 % FS

CALIBRATION

1 point

TEMP. COMPENSATION

MTC

PROTECTION

IP65

Technical values are provided for product selection. The delivered configuration, electrode type and accessory set are confirmed in the official COLO.Science quotation.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Conductivity range	0.00 $\mu\text{S}/\text{cm}$ to 100 mS/cm	Display	3.5" LCD with backlight
Conductivity resolution	0.01 $\mu\text{S}/\text{cm}$ minimum, auto range	Electrode input	5-pin connector (conductivity)
Conductivity accuracy	$\pm 1.0\%$ FS	Auto power-off	300 / 600 / 1200 / 1800 / 3600 s or off
Reference temperature	25 $^{\circ}\text{C}$	Reset	Factory default settings
Calibration	1 point, standard recognition	Power supply	Rechargeable Li battery; adapter 100–240 V AC / 5 V DC
Settable parameters	Cell constant: settable	Protection	IP65
Temperature compensation	MTC (manual)	Dimensions	80 × 225 × 35 mm
Reading modes	Continuous	Weight	approx. 400 g
Reading prompts	Reading, Stable		

Specification notes

Cell constant: $k = 1$ covers most samples; choose $k = 0.1 / 0.01$ for pure water and $k = 10$ for brines — see page 4.

Temperature: enter the sample temperature manually (MTC); conductivity is referenced to 25 $^{\circ}\text{C}$.

Higher model: for more parameters, memory or connectivity see VIKING-EC210.

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Electrodes and Accessories



PRO6153

Conductivity electrode DJS-1VC (k = 1)

2–20000 $\mu\text{S}/\text{cm}$, glass body, without temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.

Standard delivery



PRO7007

Conductivity standard 1413 $\mu\text{S}/\text{cm}$, 50 mL

Calibration standard at 25 °C for cell-constant calibration.

Standard delivery



Silicone protective case and wristband

Shock-absorbing silicone sleeve and wristband for safe one-hand field use.

Standard delivery



PRO7006

Carrying case

Protective case for the meter, electrode and buffers in field use.

Optional



PRO6155

Conductivity electrode DJS-1VG (k = 1)

2–3000 $\mu\text{S}/\text{cm}$, glass body, without temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.

Optional



PRO6154

Conductivity electrode DJS-1VTC (k = 1, ATC)

2–20000 $\mu\text{S}/\text{cm}$, glass body, with temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.

Optional



PRO6160

Conductivity electrode DJS-10VTC (k = 10, ATC)

2000–200000 $\mu\text{S}/\text{cm}$, glass body, with temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.

Optional



PRO6130

Conductivity standard 1413 $\mu\text{S}/\text{cm}$, 250 mL

Larger pack for routine calibration and checks.

Optional

More electrodes and accessories

SKU	Item	Use	Status
PRO6132	Conductivity standard 84 $\mu\text{S}/\text{cm}$, 250 mL	Calibration, low / high range	Optional
PRO6129	Conductivity standard 12.85 mS/cm, 250 mL	Calibration, low / high range	Optional
PRO6128	Conductivity standard 111.3 mS/cm, 250 mL	Calibration, low / high range	Optional

The standard conductivity electrode DJS-1VC (PRO6153, k = 1) connects to the 5-pin input; the meter uses manual temperature compensation. Electrodes with k = 0.1, 0.01 and 10 extend the range to pure water and brines. The 1413 $\mu\text{S}/\text{cm}$ standard is included; other standards are optional. Standard delivery is confirmed in the quotation.

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VIKING-EC110 standard delivery: meter, conductivity electrode, 1413 $\mu\text{S}/\text{cm}$ standard and electrode holder, silicone case, wristband

Ordering information

Item	Value
Model	VIKING-EC110
SKU	PRO6064
Instrument type	Portable Conductivity Meter, MTC
Standard electrode	DJS-1VC (PRO6153), $k = 1$
Calibration standard	1413 $\mu\text{S}/\text{cm}$, 50 mL (PRO7007)
Also included	electrode holder, silicone case, wristband
Power supply	Li battery + 5 V DC adapter

Configuration checklist

Sample type: drinking, waste, pure or process water, solutions, brines.

Range: expected conductivity decides the cell constant ($k = 0.01 / 0.1 / 1 / 10$).

Calibration: number of points and standards close to the sample value.

Documentation: results are noted manually — the meter has no data memory.

Need more?: see VIKING-EC210.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-EC110 is the economical choice for routine conductivity checks where simple operation and IP65 protection matter more than temperature measurement or data storage. COLO.Science helps you choose the electrode and standards.

QUICK CONTACT

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 [Watch the operation video](#)

COLO.SCIENCE · CONDUCTIVITY METER CONFIGURATION SUPPORT

Need help choosing the right electrode or calibration standard?

Tell us the sample type, conductivity range and how you document results. COLO.Science will confirm the electrode, standards and VIKING-EC110 configuration for your workflow.

Web: colo.si

Ask us:

Price and current discount, delivery time, electrode selection for your sample, calibration standards, installation and operator training, spare electrodes and accessories — write to sales@colo.si or call us.

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