

VIKING-EC510

Portable Conductivity Meter • EC / Resistivity / TDS / Salinity / Temperature • 4.3" touchscreen • ATC / MTC • IP67 • GLP

VIKING-EC510 Portable Conductivity Meter is a research-grade portable touchscreen conductivity meter with measurement up to 3000 mS/cm, $\pm 0.5\%$ FS accuracy, up to 5-point calibration, method management, USB 2.0, Bluetooth and IP67 protection. It combines a 4.3" colour touchscreen, conductivity measurement from 0.000 $\mu\text{S}/\text{cm}$ to 3000 mS/cm ($\pm 0.5\%$ FS), 1- to 5-point calibration with automatic standard recognition, automatic / manual temperature compensation, a 1000-result memory (GLP), USB and Bluetooth connectivity, a rechargeable Li battery and IP67 protection.

PORTABLE CONDUCTIVITY METER

EC

RESISTIVITY

TDS

SALINITY

4.3" TOUCHSCREEN

$\pm 0.5\%$ FS

CALIBRATION 1-5 POINTS

GLP

USB

IP67

Document type: Technical Specification Sheet

Product: VIKING-EC510 Portable Conductivity Meter

SKU: PRO6088

Format: A4 landscape • 5 pages

VIKING-EC510 PRODUCT PAGE

ELECTROCHEMISTRY — OVERVIEW

ELECTROCHEMISTRY CATALOGUE

REQUEST QUOTE



VIKING-EC510 • Portable Conductivity Meter

VIKING-EC510

Portable Conductivity Meter

Operation guide

Installation • settings • cell constant calibration • measurement



► Watch the operation video (5:33) • installation, settings, cell constant calibration and measurement

MODEL / SKU

VIKING-EC510
PRO6088

ADDRESS / HQ

Polje ob Sotli 4
SI-3255, Slovenia

CONTACT

sales@colo.si
+386 70 713 437

VIKING-EC510 • technical specification

Research-grade portable touchscreen meter for EC, Resistivity, TDS, Salinity and temperature measurement

EC 0.000 MS/CM...3000 MS/CM

±0.5 % FS

RESISTIVITY TO 100.0 MΩ-CM

CALIBRATION 1-5 POINTS

ATC / MTC

— Reliable portable conductivity measurement for field and laboratory use

Product Overview

Application profile

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

Purified water: resistivity and conductivity of deionised, RO and laboratory water.

Field and on-site: compact IP67 housing for sampling points, rivers, wells and plants.

Food, aquaculture and industry: salinity, TDS and conductivity of brines, rinse water and process solutions.

Key features

Conductivity: 0.000 µS/cm to 3000 mS/cm, ±0.5 % FS, reference 5 / 10 / 15 / 18 / 20 / 25 °C.

Resistivity / TDS: 5.00 Ω-cm to 100.0 MΩ-cm; 0.000 ppm to 1000 ppt, ±0.5 % FS.

Salinity: 0.0 to 80.0 ppt (NaCl), ±1 ppt.

Temperature: -10 to 135 °C / 14 to 275 °F, ±0.1 °C, ATC / MTC.

Reading modes: AutoRead (fast / medium / slow), timed, continuous.

Connection: 5-pin electrode input; USB 2.0, Bluetooth.

Core technical summary

Parameter	Specification
Model	VIKING-EC510
SKU	PRO6088
Instrument type	Portable Conductivity Meter
Display	4.3" colour touchscreen
Conductivity range	0.000 µS/cm to 3000 mS/cm
Conductivity accuracy	±0.5 % FS
Resistivity range	5.00 Ω-cm to 100.0 MΩ-cm
Calibration	1-5 points
Temperature compensation	ATC / MTC
Protection	IP67

Design and handling advantage

Clear display: 4.3" colour touchscreen with guided menus for measurement, calibration and data.

Calibration: 1-5 points with automatic recognition of 10 / 84 / 500 / 1413 µS/cm, 12.88 mS/cm.

Portable protection: IP67 housing, silicone case and wristband for one-hand work.

Data traceability: 1000 results stored per parameter with date, time and GLP records.

EC ACCURACY

±0.5 % FS

CALIBRATION

1-5 points

DATA MEMORY

1000 results

PROTECTION

IP67

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

[VIKING-EC510 PRODUCT PAGE](#)
[ELECTROCHEMISTRY — OVERVIEW](#)
[ELECTROCHEMISTRY CATALOGUE](#)
[REQUEST QUOTE](#)

Technical Parameters

Parameter	Specification	Parameter	Specification
Conductivity range	0.000 $\mu\text{S}/\text{cm}$ to 3000 mS/cm	Temperature accuracy	± 0.1 °C
Conductivity resolution	0.001 $\mu\text{S}/\text{cm}$ minimum, auto range	Temperature compensation	ATC / MTC
Conductivity accuracy	± 0.5 % FS	Reading modes	AutoRead (fast / medium / slow), timed, continuous
Reference temperature	5 / 10 / 15 / 18 / 20 / 25 °C	Reading prompts	Reading, Stable, Locked
Calibration	1–5 points, standard recognition, calibration reminder	Display	4.3" colour touchscreen
Recognised standards	10 / 84 / 500 / 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm ; 146.5 / 1408 $\mu\text{S}/\text{cm}$, 12.85 / 111.3 mS/cm	Data memory	1000 results per parameter, GLP
Settable parameters	Cell constant, temperature coefficient, TDS factor	Management	Users, calibration, electrodes, methods, data analysis
Compensation type	None, linear, pure water	Electrode input	5-pin connector (conductivity + temperature)
Resistivity range	5.00 $\Omega\text{-cm}$ to 100.0 $\text{M}\Omega\text{-cm}$	Outputs	USB 2.0 (flash drive, PC, scanner), Bluetooth
Resistivity accuracy	± 0.5 % FS	Auto power-off	300 / 600 / 1200 / 1800 / 3600 s or off
TDS range	0.000 ppm to 1000 ppt	Power supply	Rechargeable Li battery; adapter 100–240 V AC / 5 V DC
TDS accuracy	± 0.5 % FS	Protection	IP67
Salinity (NaCl)	0.0 to 80.0 ppt, 0.1 ppt, ± 1 ppt	Dimensions	90 × 255 × 40 mm
Temperature range	–10 to 135 °C / 14 to 275 °F	Weight	approx. 500 g

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: linear or pure-water compensation, settable coefficient and reference temperature 5 / 10 / 15 / 18 / 20 / 25 °C.

Standards: 84, 146.5, 1413 $\mu\text{S}/\text{cm}$ and 12.85 / 111.3 mS/cm standards cover the full range — see page 4.

[VIKING-EC510 PRODUCT PAGE](#)
[ELECTROCHEMISTRY — OVERVIEW](#)
[ELECTROCHEMISTRY CATALOGUE](#)
[REQUEST QUOTE](#)

Electrodes and Accessories



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.

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.

Standard delivery



PRO6156

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

2–3000 $\mu\text{S}/\text{cm}$, glass body, with temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.

Optional



PRO6157

Conductivity electrode DJS-0.1VTG (k = 0.1, ATC)

0.05–200 $\mu\text{S}/\text{cm}$, glass body, with temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.

Optional



PRO6158

Conductivity electrode DJS-0.01VT (k = 0.01, ATC)

0.05–20 $\mu\text{S}/\text{cm}$, titanium alloy, with temperature sensor, 0–60 °C, $\Phi 18 \times 50$ 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

More electrodes and accessories

SKU	Item	Use	Status
PRO6159	Conductivity electrode DJS-0.01VT (k = 0.01, ATC), flow cell	Ultrapure water in flow	Optional
PRO6130	Conductivity standard 1413 $\mu\text{S}/\text{cm}$, 250 mL	Calibration	Optional
PRO6132	Conductivity standard 84 $\mu\text{S}/\text{cm}$, 250 mL	Calibration, low / high range	Optional
PRO6131	Conductivity standard 146.5 $\mu\text{S}/\text{cm}$, 250 mL	Calibration, low / high range	Optional

The standard conductivity electrode DJS-1VTC (PRO6154, k = 1, ATC) connects to the 5-pin input and also measures temperature. 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.

VIKING-EC510 PRODUCT PAGE

ELECTROCHEMISTRY — OVERVIEW

ELECTROCHEMISTRY CATALOGUE

REQUEST QUOTE



VIKING-EC510 standard delivery: meter, conductivity electrode, 1413 $\mu\text{S}/\text{cm}$ standard, electrode holder, silicone case, wristband, touch pen and carrying case

Ordering information

Item	Value
Model	VIKING-EC510
SKU	PRO6088
Instrument type	Portable Conductivity Meter
Standard electrode	DJS-1VTC (PRO6154), $k = 1$
Calibration standard	1413 $\mu\text{S}/\text{cm}$, 50 mL (PRO7007)
Also included	electrode holder, silicone case, wristband, touch pen, carrying case
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: memory, GLP records, USB export or printer.

Need more?: see VIKING-EC500.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-EC510 brings benchtop-class performance to the field: 3000 mS/cm range, $\pm 0.5\%$ FS, method management, Bluetooth and IP67 — with carrying case included. COLO.Science helps you choose the electrode and standards.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

 [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-EC510 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.

[VIKING-EC510 PRODUCT PAGE](#)

[ELECTROCHEMISTRY — OVERVIEW](#)

[ELECTROCHEMISTRY CATALOGUE](#)

[REQUEST QUOTE](#)