

VIKING-EC310

Portable Conductivity Meter · EC / TDS / Salinity / Resistivity / Temperature

VIKING-EC310 Portable Conductivity Meter is a compact IP65 field-ready conductivity meter for EC, TDS, salinity, resistivity and temperature measurement. The instrument combines a 3.5" backlit LCD, ATC/MTC temperature compensation, 1–3 point calibration, GLP memory, USB communication and automatic endpoint hold in a portable format for laboratory and field water-quality workflows.

PORTABLE CONDUCTIVITY METER EC TDS SALINITY RESISTIVITY TEMPERATURE 3.5" LCD

ATC / MTC USB GLP MEMORY IP65

Document type: **Technical Specification Sheet**

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

Product: **VIKING-EC310** · Model: **EC310F**

Product code / SKU reference: **VIKING-EC310**

Supplied EC electrode: **PRO6154**

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



VIKING-EC310 · portable conductivity / TDS / salinity / resistivity / temperature meter · main unit

MODEL
VIKING-EC310
EC310F

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COLO.SCIENCE HOME

REQUEST QUOTE

LABORATORY EQUIPMENT

WATER QUALITY KNOWLEDGE

VIKING-EC310 · technical specification

Portable conductivity meter for EC, TDS, salinity, resistivity and temperature measurement

0.000 MS/CM TO 500 MS/CM

TDS 0.00 PPM TO 300 PPT

SALINITY 0.0 TO 80.0 PPT

RESISTIVITY UP TO 20.00 MΩ-CM

TEMP. -5 TO 110°C

— Portable conductivity platform for laboratory and field water-quality work

Product Overview

Application profile

Water quality laboratories: suitable for conductivity, TDS, salinity and resistivity checks in routine laboratory workflows.

Environmental monitoring: portable IP65 format supports field sampling, outdoor measurements and mobile water testing.

Industrial process control: useful for process water, rinse water, raw water and general quality-control measurements.

Education and training: suitable for conductivity theory, cell constant adjustment and temperature compensation practice.

Design and handling advantage

Clear display: 3.5" backlit LCD supports field and laboratory operation.

Portable protection: IP65 waterproof housing, silicone protective case, wrist straps and carrying case support mobile use.

Flexible readings: Auto-Read, Timed-Read and Continuous-Read modes support different measurement routines.

Traceability: GLP memory stores up to 500 results per parameter with date and time.

Key features

Conductivity: 0.000 μ S/cm to 500 mS/cm range with \pm 1.0% FS accuracy.

Multi-parameter output: conductivity, resistivity, TDS, salinity and temperature in one portable meter.

Calibration: 1–3 point calibration with standard recognition for common EC standards.

Compensation: automatic and manual temperature compensation with none, linear and pure water options.

Connectivity: USB communication for PC or printer support.

Power: rechargeable lithium battery with AC adapter support and auto power-off.

Core technical summary

Parameter	Specification
Product	VIKING-EC310 Portable Conductivity Meter
Model	EC310F
Product code / SKU reference	VIKING-EC310
Instrument type	Portable conductivity / TDS / salinity / resistivity meter with temperature measurement
Display	3.5" LCD with backlight
Conductivity range	0.000 μ S/cm to 500 mS/cm
Conductivity accuracy	\pm 1.0% FS
Temperature range	-5 to 110°C / 23 to 230°F
Data logging	500 results per parameter · GLP memory
Protection	IP65 waterproof housing

CONDUCTIVITY

0.000 μ S/cm to 500 mS/cm

CALIBRATION

1–3 points

DATA MEMORY

500 sets / parameter

PROTECTION

IP65 waterproof

Technical Specifications

Measurement ranges and performance

Parameter	Specification
Conductivity range	0.000 μ S/cm to 500 mS/cm
Conductivity resolution	Minimum 0.001 μ S/cm; resolution depends on measuring range
Conductivity accuracy	\pm 1.0% FS
Conductivity calibration	1–3 point calibration with standard recognition
Recognized standards	84 μ S/cm, 1413 μ S/cm, 12.88 mS/cm
Reference temperature	20°C or 25°C
Resistivity range	5.00 Ω ·cm to 20.00 M Ω ·cm
Resistivity resolution	Minimum 0.01 Ω ·cm
Resistivity accuracy	\pm 1.0% FS
TDS range	0.00 ppm to 300 ppt
TDS resolution	Minimum 0.01 ppm; range-dependent
TDS accuracy	\pm 1.0% FS
Salinity range	0.0 to 80.0 ppt
Salinity resolution / accuracy	0.1 ppt / \pm 2 ppt
Temperature range	–5 to 110°C / 23 to 230°F
Temperature resolution / accuracy	0.1 / \pm 0.2°C

System, compensation and connectivity

Parameter	Specification
Display	3.5" LCD display with backlight
Reading modes	Auto-Read, Timed-Read and Continuous-Read
Auto-Read settings	Fast / Medium / Slow stability options
Reading prompts	Reading / Stable / Locked status messages
Endpoint capture	Auto-Hold function detects and locks endpoint value
Temperature compensation	Automatic and manual compensation: ATC / MTC
Compensation types	None, linear and pure water
Adjustable parameters	Cell constant, temperature coefficient and TDS factor
Data capacity	500 results per parameter with date and time; GLP memory
Probe input	EC + temperature via 5-pin aviation connector
Output	USB communication for PC / printer support
Auto power-off	300 / 600 / 1200 / 1800 / 3600 seconds, or off
Power supply	Rechargeable lithium battery; AC adapter 100–240 V AC input, 5 V DC output
Dimensions	80 × 225 × 35 mm
Weight	Approx. 400 g / 0.88 lb
Shipping carton / gross weight	410 × 330 × 165 mm; gross weight approx. 5 kg

Specification note

Electrode condition: measurement quality depends on probe condition, calibration quality and correct cell constant selection.

Temperature stability: compensation should be selected according to sample type and measurement procedure.

Field use: IP65 housing, protective case and rechargeable battery support portable conductivity workflows.

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

 Standard Delivery, Accessories and Visual Support



VIKING-EC310 · carrying case with standards and accessories

Typical standard delivery

PRO6154 EC electrode: supplied conductivity electrode for EC and related water-quality measurements.

1413 $\mu\text{S}/\text{cm}$ EC standard solution: 50 mL, 1 vial, for routine conductivity calibration.

Electrode holder: support accessory for stable electrode handling during bench measurements.

Silicone protective case: protective cover for portable instrument use.

Wrist straps: practical handling support for field and mobile operation.

Carrying case: protective transport and storage case for mobile water-quality workflows.

Product image references



Main unit · portable EC / TDS / salinity / resistivity meter



Connector area · EC and temperature connection detail

Navigation note — this specification is linked back to COLO.Science

This technical specification contains direct links to the quotation request page, COLO.Science home page, laboratory equipment area and water-quality knowledge section. If a user opens this document directly from Google or on a mobile device, the page remains connected to the main website and quotation path.

 Selection and Use Notes

For water quality

Conductivity: select the correct cell constant and calibration standard for the expected measuring range.

TDS: confirm the TDS factor according to the laboratory method or application requirement.

For field work

Protection: use the carrying case, wrist straps and silicone protective case during transport and field sampling.

Power: confirm battery charging before extended mobile measurement sessions.

For GLP workflows

Traceability: use date/time logging and review stored readings for measurement records.

Calibration: document standards, temperature compensation and electrode condition.

MANUFACTURER AND SUPPORT

COLO Lab Experts

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Selection guidance: Send the sample type, expected conductivity range, required measurement parameters, field/laboratory use case and preferred calibration standards. COLO.Science can help confirm the correct VIKING-EC310 configuration, electrode set and calibration solution package for your workflow.

QUICK CONTACT

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 [Request VIKING-EC310 quotation](#)

COLO.SCIENCE · VIKING-EC310 PORTABLE CONDUCTIVITY METER SUPPORT

Need help selecting the correct conductivity meter configuration?

Send the sample matrix, expected conductivity range, required EC/TDS/salinity/resistivity parameters, calibration standard and field or laboratory use case. COLO.Science can help confirm whether VIKING-EC310 is the correct configuration for your water quality, environmental or QA/QC workflow.

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Support page: [COLO.Science quotation and product selection support](#)

Official configuration and manufacturer-confirmed specification notice:

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