VIKING-EC310T

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

VIKING-EC310T handheld conductivity meter is a rugged IP65 portable meter for conductivity, TDS, salinity, resistivity and temperature measurement. The instrument combines a 4.3” high-contrast color touchscreen, GLP-compliant data storage, USB communication, automatic or manual temperature compensation and flexible reading modes for laboratory, field and industrial water quality workflows.

HANDHELD CONDUCTIVITY METER | EC / CONDUCTIVITY | TDS | SALINITY | RESISTIVITY | TEMPERATURE | 4.3” TOUCHSCREEN | ATC / MTC | USB | GLP 1000 GROUPS | IP65

Document type: **Technical Specification Sheet**
Product family: **Portable Electrochemistry / Water Quality Meter**
Model: **VIKING-EC310T** · SKU: **PRO6089**
Main measurement: **Conductivity, TDS, salinity, resistivity and temperature**
Format: **A4 landscape · COLO.Science TechSpec v2.4 with navigation links**

VIKING-EC310T · handheld conductivity / TDS / salinity / resistivity / temperature meter · main unit

MODEL / SKU
VIKING-EC310T
PRO6089

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VIKING-EC310T · technical specification

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

0.000 MS/CM TO 1000 MS/CM | TDS 0.000 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 technical training: suitable for conductivity theory, cell constant adjustment and temperature compensation practice.

Design and handling advantage

Touchscreen operation: 4.3” high-contrast color touchscreen supports clearer instrument handling.

Portable protection: IP65 waterproof housing, silicone rubber case, wristbands and carrying case support field operation.

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

Traceability: GLP-compliant storage for up to 1000 groups with date and time supports measurement record control.

Key features

Conductivity: 0.000 µS/cm to 1000 mS/cm range with ±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.

Core technical summary

Parameter	Specification
Model	VIKING-EC310T
SKU	PRO6089
Instrument type	Handheld conductivity / TDS / salinity / resistivity meter with temperature measurement
Display	4.3” color high-contrast LCD touchscreen
Conductivity range	0.000 µS/cm to 1000 mS/cm
Conductivity accuracy	±1.0% FS
Temperature range	−5 to 110°C / 23 to 230°F
Data logging	1000 groups · GLP-compliant storage
Probe input	EC + temperature via 5-pin aviation connector
Protection	IP65 waterproof housing

CONDUCTIVITY
0.000 µS/cm to 1000 mS/cm

CALIBRATION
1–3 points

DATA MEMORY
1000 GLP groups

PROTECTION
IP65 waterproof

Technical Specifications

Measurement ranges and performance

Parameter	Specification
Conductivity range	0.000 µS/cm to 1000 mS/cm
Conductivity resolution	0.001 µS/cm minimum; resolution varies by range
Conductivity accuracy	±1.0% FS
Conductivity calibration	1–3 point calibration with standard recognition
Recognized standards	84 µS/cm, 1413 µS/cm, 12.88 mS/cm
Reference temperature	20°C or 25°C
Resistivity range	5.00 Ω·cm to 20.00 MΩ·cm
Resistivity resolution	0.01 Ω·cm minimum
Resistivity accuracy	±1.0% FS
TDS range	0.000 ppm to 300 ppt
TDS resolution	0.001; 3 significant digits, varies by range
TDS accuracy	±1.0% FS
Salinity range	0.0 to 80.0 ppt
Salinity resolution / accuracy	0.1 ppt / ±2 ppt
Temperature range	−5 to 110°C / 23 to 230°F
Temperature resolution / accuracy	0.1 / ±0.2°C

System, compensation and connectivity

Parameter	Specification
Display	4.3” color high-contrast LCD touchscreen with backlight
Reading modes	Auto-Read, Timed-Read and Continuous-Read
Auto-Read settings	Fast / Medium / Slow stability options
Reading prompts	Reading / Stable / Locked prompts
Endpoint capture	Auto-Hold function for endpoint detection and locking
Temperature compensation	Automatic and manual compensation: ATC / MTC
Compensation types	None, linear and pure water
Settable parameters	Cell constant, temperature coefficient and TDS factor
Data capacity	1000 groups with date and time; GLP-compliant storage
Probe input	EC + temperature via 5-pin aviation connector
Output	USB communication for PC / printer support
Auto shutdown	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	90 × 255 × 40 mm
Weight	Approx. 500 g / 1.1 lb
Carton / gross weight	410 × 330 × 165 mm; gross weight approx. 5.5 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-EC310T · carrying case with standards and accessories

Typical standard delivery

DJS-1VTC EC electrode: supplied conductivity electrode for EC and related water quality measurements.

1413 µS/cm EC standard solution: 50 mL, 1 vial, for routine conductivity calibration.

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

Silicone rubber case: protective cover for portable instrument use.

Wristbands and touch pen: practical handling accessories for field and touchscreen operation.

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

Product image references

Main unit · handheld 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, wristband and silicone rubber cover 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 mode and electrode condition.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

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-EC310T configuration, electrode set and calibration solution package for your workflow.

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Request VIKING-EC310T quotation

COLO.SCIENCE · VIKING-EC310T HANDHELD 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-EC310T is the correct configuration for your water quality, environmental or QA/QC workflow.

Request a quote | Laboratory equipment | Open PDF datasheet | COLO.Science home

Support page: **COLO.Science quotation and product selection support**

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.