

VIKING-EC240

Laboratory Conductivity Meter · Conductivity / Resistivity / TDS / Salinity / Temperature

Model: VIKING-EC240
 Product number / SKU: PRO5369
 Product family: Conductivity meters
 Format: A4 landscape · EN

VIKING-EC240 is a professional touch-screen **laboratory conductivity meter** designed for routine and advanced water-analysis workflows, including conductivity, resistivity, TDS, salinity and temperature measurement.

The EC240 configuration is positioned for laboratories requiring **0.5 grade accuracy**, a **5.0" color touch screen**, a standard **4-ring conductivity electrode**, 1000-result GLP database, USB / RS232 output and stable performance from ultra-low conductivity samples to high-salinity workflows.

5.0" color touch screen

0.5 grade accuracy

EC to 3000 mS/cm

Resistivity to 105.0 MΩ·cm

TDS to 3000 g/L

Salinity to 87.0 psu

ATC / MTC

GLP 1000 records

USB / RS232

No Ash workflow

Measurement coverage

Conductivity, resistivity, TDS, salinity and temperature in one laboratory bench instrument.

Electrode concept

Standard 4-ring conductivity electrode supports stable measurement across low and high-conductivity samples.

Calibration

One-point calibration, 10 built-in standards and user-defined standard solutions.

Online reference

Open HTML spec · Water quality knowledge



Key features and laboratory workflow

Touch-screen conductivity platform: VIKING-EC240 is intended for laboratories that need conductivity, resistivity, TDS, salinity and temperature capability in a bench instrument with GLP-style data handling and digital output. This model does **not** include conductivity-based Ash determination.

Key instrument features

- 5.0" color touch screen for intuitive operation.
- 0.5 grade conductivity performance for laboratory use.
- Standard 4-ring conductivity electrode for broad conductivity range and reduced polarization in high-salinity samples.
- Conductivity, resistivity, TDS, salinity and temperature measurement modes.
- 10 built-in international standard solutions and support for user-defined standards.
- Temperature compensation modes: Linear, Non-linear and Off.
- Endpoint modes: Auto / Manual / Time.
- GLP-style database with 1000 auditable / traceable measurement records.
- USB and RS232 output; optional printer support.

Measurement scope

- **Conductivity:** 0.000 $\mu\text{S}/\text{cm}$ to 3000 mS/cm .
- **Resistivity:** 0.000 $\Omega\cdot\text{cm}$ to 105.0 $\text{M}\Omega\cdot\text{cm}$.
- **TDS:** 0.000 mg/L to 3000 g/L .
- **Salinity:** 0.000 to 87.0 psu, approximately 0.00 to 15.00%.
- **Temperature:** -30.0 to 135.0 $^{\circ}\text{C}$ with ATC / MTC workflow.
- **Ash:** not included on EC240; select EC250 if conductivity-based ash determination is required.

Measurement and data handling highlights

Display **5.0" color touch**

Accuracy grade **0.5**

Conductivity accuracy **$\pm 0.5\%$ reading**

Temperature accuracy **± 0.1 $^{\circ}\text{C}$**

GLP database **1000 records**

Communication **USB / RS232**

Water quality labs

Broad EC, resistivity, TDS, salinity and temperature coverage supports routine and method-driven water analysis.

High-salinity samples

4-ring electrode design reduces polarization effects and supports stable readings in high-conductivity solutions.

Traceable QC

GLP-style 1000-result database, endpoint control and digital output support repeatable and auditable measurement workflows.

Technical specifications

Conductivity and calibration

Model	VIKING-EC240
Product number / SKU	PRO5369
Instrument type	Laboratory conductivity meter with 5.0" touch screen
Measured parameters	Conductivity, resistivity, TDS, salinity, temperature
Ash workflow	Not included on VIKING-EC240
Conductivity range	0.000 µS/cm to 3000 mS/cm
Conductivity resolution	Automatic, 0.001 to 1 depending on measurement range
Conductivity accuracy	±0.5% of reading across all ranges
Accuracy grade	0.5 grade
Calibration	One-point calibration; 10 built-in standards; user-defined solutions supported
Cell constant	Known cell constant can be entered for electrode calibration
Preset standards	146.5 µS/cm, 1408 µS/cm, 12.85 mS/cm, 111.3 mS/cm

Endpoint and data management

Endpoint modes	Auto / Manual / Time
GLP database	1000 measurements, auditable / traceable
Traceability	Auditable measurement database for laboratory workflows
Output	USB and RS232
Printer	Optional printer support
Difference from EC250	EC240 does not include Ash, Pure-water compensation or 2000-record GLP database.

Resistivity, TDS, salinity and temperature

Resistivity range	0.000 Ω·cm to 105.0 MΩ·cm
Resistivity resolution	Automatic, 0.001 to 1.0 depending on range
TDS range	0.000 mg/L to 3000 g/L
TDS resolution	Automatic, 0.001 to 1.0 depending on range
Salinity range	0.000 to 87.0 psu, approximately 0.00 to 15.00%
Salinity resolution	Automatic, 0.001 to 1.0 depending on range
Temperature range	-30.0 to 135.0 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.1 °C
Temperature compensation	ATC / MTC; Linear, Non-linear or Off
Reference temperature	20 °C or 25 °C

Display, input, power and physical data

Display	5.0" color touch screen
Electrode	Standard 4-ring conductivity electrode recommended for broad conductivity and high-salinity samples
Input	Mini-DIN / Cinch, NTC 30 kΩ built-in temperature input
Power input	110–220 V AC, 50/60 Hz
DC power	9–12 V DC
Housing dimensions	250 × 165 × 65 mm
Main unit image	https://colo.si/wp-content/uploads/2025/09/VIKING-EC250.jpg
HTML specification	Open VIKING-EC240 HTML specification

Conductivity, resistivity, TDS, salinity, temperature, I/O and physical specifications

Note: VIKING-EC240 is the non-Ash configuration. For conductivity-based ash determination, Pure-water compensation and larger 2000-record GLP database, use the VIKING-EC250 configuration. SKU is set as PRO5369.

Laboratory use, selection notes and method fit

When VIKING-EC240 is a suitable choice

- When a bench conductivity meter with 5.0" touch-screen operation is required.
- When conductivity, resistivity, TDS, salinity and temperature must be measured in one instrument.
- When 0.5 grade accuracy and a 4-ring electrode configuration are preferred.
- When the laboratory requires USB / RS232 output and optional printer support.
- When traceable measurement storage and endpoint control are important for routine QC.
- When Ash determination is not required.

Configuration and method checks

- Confirm SKU PRO5369 before final catalogue and quotation use.
- Confirm supplied 4-ring conductivity electrode and cell constant.
- Confirm calibration standard set and any user-defined standard solutions.
- Define reference temperature, compensation mode and endpoint mode according to SOP.
- Confirm if optional printer is required for the customer workflow.
- Use VIKING-EC250 if Ash or Pure-water compensation is required.

Important measurement considerations

Conductivity measurement depends on electrode cell constant, temperature compensation settings, calibration standard condition, sample matrix, sample temperature and probe cleanliness. The wide conductivity range of VIKING-EC240 makes the instrument suitable for ultra-low to high-conductivity laboratory samples, but method suitability should always be checked against the expected range and acceptance criteria.

For laboratories that do not require Ash determination, EC240 gives the same core conductivity, resistivity, TDS, salinity and temperature performance category as the higher EC250 configuration, while keeping the workflow focused on general water-analysis and QC tasks.

Water quality

Routine and advanced checks for conductivity, TDS, salinity, resistivity and temperature in water laboratories.

Industrial QC

Digital output, endpoint modes and GLP-style data support process-water and industrial quality-control workflows.

High-salinity samples

4-ring electrode configuration is useful for stable measurements in highly conductive or saline solutions.

Product links, document paths and technical notice

Configure VIKING-EC240 for conductivity and water-quality workflows

COLO.Science can support selection of conductivity meters, 4-ring electrodes, calibration standards and accessories for water quality, process water, industrial QC and routine laboratory measurement.

[Open HTML specification](#)

[Water quality knowledge](#)

[Request quotation](#)

[PDF version](#)

COLO.Science

Laboratory equipment, technical specifications and product configuration.

sales@colo.si

+386 64 222 724

<https://colo.si/contacts/>

Recommended document links

- **HTML path:** /wp-content/images/TechSpec/WaterQualityP/VIKING-EC240.html
- **PDF path:** /wp-content/images/TechSpec/WaterQualityP/VIKING-EC240.pdf
- **Main image:** <https://colo.si/wp-content/uploads/2025/09/VIKING-EC250.jpg>
- **Knowledge / outbound link:** COLO.Science water quality knowledge
- **Main website:** COLO.Science equipment website

Configuration confirmation checklist

- Confirm SKU: PRO5369.
- Confirm supplied electrode and cell constant.
- Confirm calibration standards and optional printer.
- Confirm whether customer requires Ash workflow; if yes, select EC250.
- Confirm if Pure-water compensation is required; if yes, select EC250.
- Confirm final accessories before quotation and procurement use.

Technical disclaimer: This COLO.Science technical specification is prepared for product orientation, quotation preparation and preliminary comparison only. Technical characteristics, supplied accessories, electrode configuration and final options may vary depending on the confirmed offer, manufacturer documentation and selected measurement workflow. Only the official quotation, order confirmation and manufacturer-approved specification should be treated as definitive for procurement, tender or contractual use.