

# VIKING-EC300

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

Model: VIKING-EC300  
 Product number / SKU: PRO-EC300  
 Product family: Conductivity meters  
 Format: A4 landscape · EN

**VIKING-EC300** is a laboratory conductivity meter for accurate, repeatable and traceable measurement of **conductivity, resistivity, TDS, salinity** and temperature.

The instrument combines a **7.0-inch high-resolution LCD display**, Auto-Read / Timed / Continuous modes, automatic or manual temperature compensation, Auto-Hold endpoint locking, GLP storage for 500 results per parameter and USB / RS-232 communication.

- EC / Res / TDS / Sal / Temp
- 7.0" LCD
- ±1.0% FS
- 1–3 point calibration
- ATC / MTC
- 500 results each
- USB / RS-232
- IP54

<p><b>Conductivity range</b>                  0.000 <math>\mu\text{S}/\text{cm}</math> to 1000 <math>\text{mS}/\text{cm}</math> with minimum resolution down to 0.001 <math>\mu\text{S}/\text{cm}</math>.</p>	<p><b>Calibration</b>                  Up to 3 points with automatic recognition of 84 <math>\mu\text{S}/\text{cm}</math>, 1413 <math>\mu\text{S}/\text{cm}</math> and 12.88 <math>\text{mS}/\text{cm}</math> standards.</p>
<p><b>Traceability</b>                  GLP features, date/time records and 500 stored results for each parameter.</p>	<p><b>Online reference</b>                  Open product page · Electrochemical instruments</p>



## Key features and laboratory workflow

**Routine EC platform:** VIKING-EC300 is intended for laboratories that need a stable LCD-based conductivity meter with 1–3 point calibration, ATC/MTC compensation, Auto-Hold endpoint locking, GLP storage and IP54 protection.

### Key instrument features

- 7.0-inch high-resolution LCD display with backlight.
- Multiple reading modes: Auto Read, Timed and Continuous.
- Auto Read supports Fast / Medium / Slow measurement behaviour.
- Automatic and manual temperature compensation: ATC / MTC.
- Auto-Hold detects and locks the measurement endpoint.
- GLP-compliant storage: 500 results for each parameter.
- USB and RS-232 outputs for PC and printer workflows.
- Date and time stamping for laboratory traceability.
- 1–3 point calibration with automatic standard recognition.
- Settable cell constant, temperature coefficient and TDS factor.
- Temperature compensation types: none, linear and pure water.
- Auto shutdown: 1–60 minutes or off.
- IP54 splash protection for routine laboratory environments.

### Measurement scope

- **Conductivity:** 0.000  $\mu\text{S}/\text{cm}$  to 1000  $\text{mS}/\text{cm}$ .
- **Resistivity:** 5.00  $\Omega\text{-cm}$  to 20.00  $\text{M}\Omega\text{-cm}$ .
- **TDS:** 0.00 ppm to 300 ppt.
- **Salinity:** 0.0 to 80.0 ppt and 0.00 to 8.00 %NaCl.
- **Temperature:**  $-5.0$  to  $110\text{ }^\circ\text{C}$  /  $23.0$  to  $230\text{ }^\circ\text{F}$ .
- **Input:** conductivity with temperature probe, 5-pin aviation connector.

### Included delivery set

**PRO6154**  
EC electrode

**1413  $\mu\text{S}/\text{cm}$**   
EC standard solution, 50 mL, 1 vial

**EHO5 / PRO6110**  
Electrode stand

### Water quality

Routine EC, TDS, salinity and temperature measurement for water analysis workflows.

### QC environments

GLP storage, endpoint locking and communication ports support traceable QC routines.

### Research and education

Clear LCD operation and repeatable reading modes support teaching laboratories and routine research.

# Technical specifications

## Conductivity and calibration

<b>Model</b>	VIKING-EC300
<b>Measured parameters</b>	EC / Resistivity / TDS / Salinity / Temperature
<b>Conductivity range</b>	0.000 µS/cm to 1000 mS/cm
<b>Conductivity resolution</b>	0.001 µS/cm minimum, varies with range
<b>Conductivity accuracy</b>	±1.0% FS
<b>Reference temperature</b>	20, 25 °C
<b>Calibration points</b>	Up to 3 points
<b>Standard recognition</b>	84 µS/cm, 1413 µS/cm, 12.88 mS/cm

## Resistivity, TDS, salinity and temperature

<b>Resistivity range</b>	5.00 Ω·cm to 20.00 MΩ·cm
<b>Resistivity resolution</b>	0.01 Ω·cm minimum
<b>Resistivity accuracy</b>	±1.0% FS
<b>TDS range</b>	0.00 ppm to 300 ppt
<b>TDS resolution</b>	0.01 ppm minimum, varies with range
<b>TDS accuracy</b>	±1.0% FS
<b>Salinity range</b>	0.0–80.0 ppt; 0.00–8.00 %NaCl
<b>Salinity resolution</b>	0.1 ppt; 0.1%
<b>Salinity accuracy</b>	±2 ppt
<b>Temperature range</b>	–5.0 to 110 °C / 23.0 to 230 °F
<b>Temperature resolution / accuracy</b>	0.1 · ±0.2 °C
<b>Temperature units</b>	°C / °F

## Measurement, compensation and I/O

<b>Reading modes</b>	Auto Read: Fast / Medium / Slow; Timed; Continuous
<b>Prompts</b>	Reading / Stable / Locked
<b>Endpoint hold</b>	Auto-Hold with stable reading lock
<b>Temperature compensation</b>	ATC / MTC
<b>Compensation types</b>	None / linear / pure water
<b>Settable options</b>	Cell constant, temperature coefficient, TDS factor
<b>Data storage</b>	500 results each parameter, GLP features
<b>Date and time</b>	Yes
<b>Inputs</b>	Conductivity, resistivity, TDS, salinity, temperature; I/O and physical specifications, Conductivity with temperature probe, 5-pin aviation connector
<b>Outputs</b>	USB, RS-232, PC / printer

## Display, power and physical data

<b>Display</b>	7.0-inch high-resolution LCD display; backlight: yes
<b>Auto shutdown</b>	1–60 minutes, off
<b>Protection</b>	IP54
<b>Power</b>	AC adapter, 100–240 V AC input, DC 20 V output
<b>Instrument dimensions</b>	242 × 195 × 68 mm
<b>Net weight</b>	900 g / 1.98 lb
<b>Carton dimensions</b>	350 × 280 × 220 mm
<b>Shipping weight</b>	2.5 kg

## Laboratory use, selection notes and method fit

### When VIKING-EC300 is a suitable choice

- When EC, resistivity, TDS, salinity and temperature are required in one bench meter.
- When the laboratory needs a reliable LCD-based meter for routine water quality workflows.
- When 1–3 point calibration and automatic standard recognition are sufficient for the method.
- When GLP storage, date/time records and stable endpoint detection are important.
- When USB or RS-232 communication is needed for PC or printer workflows.

### Configuration and method checks

- Confirm the expected conductivity range and sample matrix before quotation.
- Select the correct EC probe and cell constant for the application.
- Use suitable standards at 84  $\mu\text{S}/\text{cm}$ , 1413  $\mu\text{S}/\text{cm}$  or 12.88  $\text{mS}/\text{cm}$  according to the method range.
- Define whether linear, pure water or no temperature compensation is required.
- Review data export, printer and GLP storage requirements before final configuration.

### Important measurement considerations

Conductivity measurement depends on electrode cell constant, temperature compensation settings, calibration standard condition, sample matrix, sample temperature and probe cleanliness. VIKING-EC300 covers routine laboratory conductivity ranges, but the selected electrode and method should always match the expected sample range and laboratory acceptance criteria.

For traceable workflows, Auto-Hold endpoint locking, GLP storage, date/time logging and USB / RS-232 communication help laboratories document repeatable results and reduce manual recording errors.

### Water quality

Routine checks for water quality, process water, purified water, wastewater and environmental samples.

### Production QC

Conductivity, TDS and salinity monitoring in food, beverage, chemical and pharmaceutical workflows.

### Education and research

Repeatable LCD-based operation for teaching laboratories, research projects and method comparison.

## Product links, video placeholder and technical notice

### Configure VIKING-EC300 for routine conductivity workflows

COLO.Science can support selection of conductivity meters, EC electrodes, calibration standards and accessories for water quality, QC, research and routine laboratory measurement.

[Open product page](#)[Benchtop conductivity meters](#)[Electrochemical instruments](#)[Request quotation](#)[PDF version](#)

#### COLO.Science

Laboratory equipment, technical specifications and product configuration.

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

#### Recommended document links

- **Product page:** VIKING-EC300 product page
- **Category:** Benchtop conductivity meters
- **Electrochemistry page:** Electrochemical instruments
- **HTML path:** /wp-content/images/TechSpec/WaterQualityP/VIKING-EC300.html
- **PDF path:** /wp-content/images/TechSpec/WaterQualityP/VIKING-EC300.pdf

#### Video presentation · in preparation

A VIKING-EC300 product video can be added later. It should present the LCD interface, EC calibration workflow, conductivity / resistivity / TDS / salinity measurement routines, electrode connection and data export options.

**Temporary video placeholder:** #viking-ec300-video

Replace this anchor with the final YouTube / product video URL when available.

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