

VIKING-EC300

Benchtop Conductivity Meter • EC / Resistivity / TDS / Salinity / Temperature • 7.0" LCD • ATC / MTC • IP54 • GLP

VIKING-EC300 Benchtop Conductivity Meter is a benchtop conductivity meter for conductivity, resistivity, TDS, salinity and temperature, with a 7" display, GLP data memory, USB and RS-232 for routine laboratory work. It combines a 7.0" backlit LCD, conductivity measurement from 0.000 $\mu\text{S}/\text{cm}$ to 1000 mS/cm ($\pm 1.0\%$ FS), 1- to 3-point calibration with automatic standard recognition, automatic / manual temperature compensation, a 500-result memory (GLP), USB and RS-232 connectivity and IP54 protection.

BENCHTOP CONDUCTIVITY METER

EC

RESISTIVITY

TDS

SALINITY

7.0" LCD

$\pm 1.0\%$ FS

CALIBRATION 1-3 POINTS

GLP

USB

IP54

Document type: **Technical Specification Sheet**

Product: **VIKING-EC300 Benchtop Conductivity Meter**

SKU: **PRO6197**

Format: **A4 landscape • 5 pages**

[VIKING-EC300 PRODUCT PAGE](#)

[ELECTROCHEMISTRY — OVERVIEW](#)

[ELECTROCHEMISTRY CATALOGUE](#)

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VIKING-EC300 • Benchtop Conductivity Meter

VIKING-EC300

Benchtop Conductivity Meter

Operation guide

Installation • settings • cell constant calibration • measurement



► [Watch the operation video \(4:45\)](#) • installation, settings, cell constant calibration and measurement

MODEL / SKU

VIKING-EC300
PRO6197

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VIKING-EC300 • technical specification

Professional benchtop meter for EC, Resistivity, TDS, Salinity and temperature measurement

EC 0.000 MS/CM...1000 MS/CM

±1.0 % FS

RESISTIVITY TO 20.00 MΩ-CM

CALIBRATION 1-3 POINTS

ATC / MTC

— Reliable benchtop conductivity measurement for the laboratory

Product Overview

Application profile

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

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

Laboratory QC: routine release testing of water, solutions and raw materials.

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

Key features

Conductivity: 0.000 µS/cm to 1000 mS/cm, ±1.0 % FS, reference 20 / 25 °C.

Resistivity / TDS: 5.00 Ω-cm to 20.00 MΩ-cm; 0.00 ppm to 300 ppt, ±1.0 % FS.

Salinity: 0.0 to 80.0 ppt (NaCl), ±2 ppt.

Temperature: -5 to 110 °C / 23 to 230 °F, ±0.2 °C, ATC / MTC.

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

Connection: 5-pin electrode input; USB, RS-232.

Design and handling advantage

Clear display: 7.0" LCD with backlight with Reading / Stable prompts.

Calibration: 1-3 points with automatic recognition of 84 µS/cm, 1413 µS/cm, 12.88 mS/cm.

Stable bench setup: electrode stand with 360° arm keeps the cell in position during measurement.

Data traceability: 500 results stored per parameter with date, time and GLP records.

Core technical summary

Parameter	Specification
Model	VIKING-EC300
SKU	PRO6197
Instrument type	Benchtop Conductivity Meter
Display	7.0" LCD with backlight
Conductivity range	0.000 µS/cm to 1000 mS/cm
Conductivity accuracy	±1.0 % FS
Resistivity range	5.00 Ω-cm to 20.00 MΩ-cm
Calibration	1-3 points
Temperature compensation	ATC / MTC
Protection	IP54

EC ACCURACY

±1.0 % FS

CALIBRATION

1-3 points

DATA MEMORY

500 results

PROTECTION

IP54

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

[VIKING-EC300 PRODUCT PAGE](#)
[ELECTROCHEMISTRY — OVERVIEW](#)
[ELECTROCHEMISTRY CATALOGUE](#)
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Technical Parameters

Parameter	Specification	Parameter	Specification
Conductivity range	0.000 µS/cm to 1000 mS/cm	Temperature accuracy	±0.2 °C
Conductivity resolution	0.001 µS/cm minimum, auto range	Temperature compensation	ATC / MTC
Conductivity accuracy	±1.0 % FS	Reading modes	AutoRead (fast / medium / slow), timed, continuous
Reference temperature	20 / 25 °C	Reading prompts	Reading, Stable, Locked
Calibration	1–3 points, standard recognition	Display	7.0" LCD with backlight
Recognised standards	84 µS/cm, 1413 µS/cm, 12.88 mS/cm	Data memory	500 results per parameter, GLP
Settable parameters	Cell constant, temperature coefficient, TDS factor	Electrode input	5-pin connector (conductivity + temperature)
Compensation type	None, linear, pure water	Outputs	USB (PC), RS-232 (printer)
Resistivity range	5.00 Ω·cm to 20.00 MΩ·cm	Auto power-off	1–60 min or off
Resistivity accuracy	±1.0 % FS	Power supply	Power adapter, DC 20 V
TDS range	0.00 ppm to 300 ppt	Protection	IP54
TDS accuracy	±1.0 % FS	Dimensions	242 × 195 × 68 mm
Salinity (NaCl)	0.0 to 80.0 ppt, 0.1 ppt, ±2 ppt	Weight	approx. 900 g
Temperature range	–5 to 110 °C / 23 to 230 °F		

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 20 / 25 °C.

Higher model: for more parameters, memory or connectivity see VIKING-EC400.

[VIKING-EC300 PRODUCT PAGE](#)
[ELECTROCHEMISTRY — OVERVIEW](#)
[ELECTROCHEMISTRY CATALOGUE](#)
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PRO6154
Conductivity electrode DJS-1VTC (k = 1, ATC)
 2–20000 $\mu\text{S/cm}$, glass body, with temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.
 Standard delivery



PRO7007
Conductivity standard 1413 $\mu\text{S/cm}$, 50 mL
 Calibration standard at 25 °C for cell-constant calibration.
 Standard delivery



COLO-5
Electrode stand COLO-5
 Flexible electrode arm with 360° rotation; holds the electrode above the beaker.
 Standard delivery



PRO6156
Conductivity electrode DJS-1VTG (k = 1, ATC)
 2–3000 $\mu\text{S/cm}$, 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 $\mu\text{S/cm}$, 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 $\mu\text{S/cm}$, 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 $\mu\text{S/cm}$, glass body, with temperature sensor, 0–80 °C, $\Phi 12 \times 120$ mm; 5-pin connector.
 Optional



PRO6159
Conductivity electrode DJS-0.01VT (k = 0.01, ATC), flow cell
 0.05–20 $\mu\text{S/cm}$, titanium alloy, with temperature sensor, 0–60 °C, removable flow cell; 5-pin connector.
 Optional

More electrodes and accessories

SKU	Item	Use	Status
PRO6998	Thermal printer 771000	Documentation / GLP	Optional
PRO6130	Conductivity standard 1413 $\mu\text{S/cm}$, 250 mL	Calibration	Optional
PRO6132	Conductivity standard 84 $\mu\text{S/cm}$, 250 mL	Calibration, low / high range	Optional
PRO6131	Conductivity standard 146.5 $\mu\text{S/cm}$, 250 mL	Calibration, low / high range	Optional
PRO6129	Conductivity standard 12.85 mS/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 $\mu\text{S/cm}$ standard is included; other standards are optional. Standard delivery is confirmed in the quotation.



VIKING-EC300 standard delivery: meter, conductivity electrode, 1413 $\mu\text{S}/\text{cm}$ standard and electrode stand COLO-5

Ordering information

Item	Value
Model	VIKING-EC300
SKU	PRO6197
Instrument type	Benchtop Conductivity Meter
Standard electrode	DJS-1VTC (PRO6154), $k = 1$
Calibration standard	1413 $\mu\text{S}/\text{cm}$, 50 mL (PRO7007)
Also included	electrode stand COLO-5
Power supply	Power adapter, DC 20 V

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-EC400.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-EC300 is the laboratory workhorse for conductivity, resistivity, TDS and salinity with GLP documentation, PC export and printer output. COLO.Science helps you choose the electrode and standards.

QUICK CONTACT

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 [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-EC300 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-EC300 PRODUCT PAGE](#)

[ELECTROCHEMISTRY — OVERVIEW](#)

[ELECTROCHEMISTRY CATALOGUE](#)

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