

VIKING-EC500

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

VIKING-EC500 Benchtop Conductivity Meter is a research-grade benchtop touchscreen conductivity meter with up to 5-point calibration, ± 0.5 % FS accuracy, user and GMP management (21 CFR Part 11), USB 2.0 and RS-232. It combines a 7.0" colour touchscreen, conductivity measurement from 0.000 $\mu\text{S}/\text{cm}$ to 2000 mS/cm (± 0.5 % FS), 1- to 5-point calibration with automatic standard recognition, automatic / manual temperature compensation, a 1000-result memory (GLP), USB and RS-232 connectivity and IP54 protection.

BENCHTOP CONDUCTIVITY METER

EC

RESISTIVITY

TDS

SALINITY

7.0" TOUCHSCREEN

± 0.5 % FS

CALIBRATION 1-5 POINTS

GLP

USB

IP54

Document type: **Technical Specification Sheet**

Product: **VIKING-EC500 Benchtop Conductivity Meter**

SKU: **PRO3566**

Format: **A4 landscape • 5 pages**

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VIKING-EC500 • Benchtop Conductivity Meter

VIKING-EC500

Benchtop Conductivity Meter

Operation guide

Installation • settings • cell constant calibration • measurement



► [Watch the operation video \(6:04\)](#) • installation, settings, cell constant calibration and measurement

MODEL / SKU

VIKING-EC500
PRO3566

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VIKING-EC500 • technical specification

Research-grade benchtop touchscreen meter for EC, Resistivity, TDS, Salinity and temperature measurement

EC 0.000 MS/CM...2000 MS/CM

±0.5 % FS

RESISTIVITY TO 100.0 MΩ-CM

CALIBRATION 1-5 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 2000 mS/cm, ±0.5 % FS, reference 5 / 10 / 15 / 18 / 20 / 25 °C.

Resistivity / TDS: 5.00 Ω-cm to 100.0 MΩ-cm; 0.000 ppm to 1000 ppt, ±0.5 % FS.

Salinity: 0.0 to 80.0 ppt (NaCl), ±1 ppt.

Temperature: -10 to 135 °C / 14 to 275 °F, ±0.1 °C, ATC / MTC.

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

Connection: 5-pin electrode input; USB 2.0, RS-232.

Core technical summary

Parameter	Specification
Model	VIKING-EC500
SKU	PRO3566
Instrument type	Benchtop Conductivity Meter
Display	7.0" colour touchscreen
Conductivity range	0.000 µS/cm to 2000 mS/cm
Conductivity accuracy	±0.5 % FS
Resistivity range	5.00 Ω-cm to 100.0 MΩ-cm
Calibration	1-5 points
Temperature compensation	ATC / MTC
Protection	IP54

Design and handling advantage

Clear display: 7.0" colour touchscreen with guided menus for measurement, calibration and data.

Calibration: 1-5 points with automatic recognition of 10 / 84 / 500 / 1413 µS/cm, 12.88 mS/cm.

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

Data traceability: 1000 results stored per parameter with date, time and GLP records.

EC ACCURACY

±0.5 % FS

CALIBRATION

1-5 points

DATA MEMORY

1000 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.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Conductivity range	0.000 $\mu\text{S}/\text{cm}$ to 2000 mS/cm	Temperature accuracy	± 0.1 $^{\circ}\text{C}$
Conductivity resolution	0.001 $\mu\text{S}/\text{cm}$ minimum, auto range	Temperature compensation	ATC / MTC
Conductivity accuracy	± 0.5 % FS	Reading modes	AutoRead (fast / medium / slow), timed, continuous
Reference temperature	5 / 10 / 15 / 18 / 20 / 25 $^{\circ}\text{C}$	Reading prompts	Reading, Stable, Locked
Calibration	1–5 points, standard recognition, calibration reminder	Display	7.0" colour touchscreen
Recognised standards	10 / 84 / 500 / 1413 $\mu\text{S}/\text{cm}$, 12.88 mS/cm ; 146.5 / 1408 $\mu\text{S}/\text{cm}$, 12.85 / 111.3 mS/cm	Data memory	1000 results per parameter, GLP
Settable parameters	Cell constant, temperature coefficient, TDS factor	Management	Users, calibration, methods, GMP log (21 CFR Part 11)
Compensation type	None, linear, pure water	Electrode input	5-pin connector (conductivity + temperature)
Resistivity range	5.00 $\Omega\text{-cm}$ to 100.0 $\text{M}\Omega\text{-cm}$	Outputs	USB 2.0 (flash drive, PC, scanner), RS-232 (printer, autosampler)
Resistivity accuracy	± 0.5 % FS	Auto power-off	1–60 min or off
TDS range	0.000 ppm to 1000 ppt	Power supply	Power adapter, DC 24 V
TDS accuracy	± 0.5 % FS	Protection	IP54
Salinity (NaCl)	0.0 to 80.0 ppt, 0.1 ppt, ± 1 ppt	Dimensions	220 $\times$ 195 $\times$ 68 mm
Temperature range	–10 to 135 $^{\circ}\text{C}$ / 14 to 275 $^{\circ}\text{F}$	Weight	approx. 950 g

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 5 / 10 / 15 / 18 / 20 / 25 $^{\circ}\text{C}$.

Standards: 84, 146.5, 1413 $\mu\text{S}/\text{cm}$ and 12.85 / 111.3 mS/cm standards cover the full range — see page 4.

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Electrodes and Accessories



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



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



COLO-6
Electrode stand COLO-6
 Electrode arm with 360° rotation and one-hand height adjustment; holds up to 4 electrodes.
 Standard delivery



PRO6156
Conductivity electrode DJS-1VTG (k = 1, ATC)
 2–3000 $\mu\text{S}/\text{cm}$, 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 $\mu\text{S}/\text{cm}$, 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 $\mu\text{S}/\text{cm}$, 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 $\mu\text{S}/\text{cm}$, 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 $\mu\text{S}/\text{cm}$, 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 $\mu\text{S}/\text{cm}$, 250 mL	Calibration	Optional
PRO6132	Conductivity standard 84 $\mu\text{S}/\text{cm}$, 250 mL	Calibration, low / high range	Optional
PRO6131	Conductivity standard 146.5 $\mu\text{S}/\text{cm}$, 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 $\mu\text{S}/\text{cm}$ standard is included; other standards are optional. Standard delivery is confirmed in the quotation.



VIKING-EC500 standard delivery: meter, conductivity electrode, 1413 $\mu\text{S}/\text{cm}$ standard, electrode stand COLO-6 and touch pen

Ordering information

Item	Value
Model	VIKING-EC500
SKU	PRO3566
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-6, touch pen
Power supply	Power adapter, DC 24 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?: modular 4-channel VIKING-EC600.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-EC500 is the benchtop choice for regulated laboratories: user roles, GMP log, calibration and verification reminders, barcode scanner, printer and autosampler connection. 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-EC500 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.

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