

VIKING-EC400

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

VIKING-EC400 Benchtop Conductivity Meter is a high-accuracy benchtop conductivity meter ($\pm 0.5\%$ FS) for conductivity, resistivity up to $100\text{ M}\Omega\cdot\text{cm}$, TDS, salinity and temperature, with GLP memory, USB and RS-232. It combines a 7.0" backlit LCD, conductivity measurement from $0.000\text{ }\mu\text{S}/\text{cm}$ to $1000\text{ mS}/\text{cm}$ ($\pm 0.5\%$ 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

$\pm 0.5\%$ FS

CALIBRATION 1-3 POINTS

GLP

USB

IP54

Document type: **Technical Specification Sheet**

Product: **VIKING-EC400 Benchtop Conductivity Meter**

SKU: **PRO2747**

Format: **A4 landscape • 5 pages**

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VIKING-EC400 • Benchtop Conductivity Meter

VIKING-EC400

Benchtop Conductivity Meter

Operation guide

Installation • settings • cell constant calibration • measurement



► [Watch the operation video \(4:42\)](#) • installation, settings, cell constant calibration and measurement

MODEL / SKU

VIKING-EC400
PRO2747

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VIKING-EC400 • technical specification

High-accuracy benchtop meter for EC, Resistivity, TDS, Salinity and temperature measurement

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

±0.5 % FS

RESISTIVITY TO 100.0 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, ±0.5 % FS, reference 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, RS-232.

Core technical summary

Parameter	Specification
Model	VIKING-EC400
SKU	PRO2747
Instrument type	Benchtop Conductivity Meter
Display	7.0" LCD with backlight
Conductivity range	0.000 µS/cm to 1000 mS/cm
Conductivity accuracy	±0.5 % FS
Resistivity range	5.00 Ω-cm to 100.0 MΩ-cm
Calibration	1-3 points
Temperature compensation	ATC / MTC
Protection	IP54

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.

EC ACCURACY

±0.5 % 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.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Conductivity range	0.000 µS/cm to 1000 mS/cm	Temperature accuracy	±0.1 °C
Conductivity resolution	0.001 µS/cm minimum, auto range	Temperature compensation	ATC / MTC
Conductivity accuracy	±0.5 % 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 100.0 MΩ·cm	Auto power-off	1–60 min or off
Resistivity accuracy	±0.5 % FS	Power supply	Power adapter, DC 20 V
TDS range	0.000 ppm to 1000 ppt	Protection	IP54
TDS accuracy	±0.5 % FS	Dimensions	242 × 195 × 68 mm
Salinity (NaCl)	0.0 to 80.0 ppt, 0.1 ppt, ±1 ppt	Weight	approx. 900 g
Temperature range	–10 to 135 °C / 14 to 275 °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-EC500.

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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-EC400 standard delivery: meter, conductivity electrode, 1413 $\mu\text{S}/\text{cm}$ standard and electrode stand COLO-5

Ordering information

Item	Value
Model	VIKING-EC400
SKU	PRO2747
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-EC500.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-EC400 is chosen where $\pm 0.5\%$ FS accuracy and resistivity up to 100 $\text{M}\Omega\cdot\text{cm}$ are needed, e.g. for purified and pharmaceutical water, with GLP records 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-EC400 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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