

VIKING-M310

Portable Multi-parameter Analyzer • pH / EC / ISE / DO / Temperature • 4.3" touchscreen • IP67 • GLP

VIKING-M310 Portable Multi-parameter Analyzer is a portable touchscreen multi-parameter analyzer for pH, conductivity, ion concentration, dissolved oxygen and temperature in one instrument, for the field and the laboratory. It combines a 4.3" colour touchscreen, pH ± 0.01 pH, conductivity ± 1.0 % FS, ISE ± 0.5 %, DO 0.00 to 50.00 mg/L, 1000-result GLP memory and IP67 protection.

PORTABLE MULTI-PARAMETER ANALYZER PH EC ISE DO TEMPERATURE 4.3" TOUCHSCREEN

± 0.01 PH EC ± 1.0 % FS GLP IP67

Document type: **Technical Specification Sheet**

Product: **VIKING-M310 Portable Multi-parameter Analyzer**

SKU: **PRO5382**

Format: **A4 landscape • 5 pages**

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VIKING-M310 • Portable Multi-parameter Analyzer



Standard electrode set • pH PRO4153 • EC PRO6154 • DO PRO6163

MODEL / SKU
VIKING-M310
PRO5382

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VIKING-M310 • technical specification

Portable Multi-parameter Analyzer for pH, EC, ISE, DO, Temperature

 PH ± 0.01 PH EC ± 1.0 % FS ISE ± 0.5 % DO 0.00...50.00 MG/L IP67 — All key water parameters on one portable instrument

Product Overview

Application profile

Water and wastewater: pH, conductivity, ions and oxygen in drinking, surface and waste water.

Environment and aquaculture: monitoring of rivers, lakes, wells and fish farms.

Food, pharma and industry: process water, solutions and quality control.

Education and research: several methods on one instrument instead of several meters.

Design and handling advantage

One instrument: pH / EC / ISE / DO / Temperature with separate electrode inputs.

Clear display: 4.3" colour touchscreen with guided menus for measurement, calibration and data.

Calibration: pH up to 5 points with buffer recognition, conductivity up to 3 points, ions up to 5 points.

Data traceability: 1000 results per parameter, GLP; USB (PC, printer).

Key features

pH: -2.00 to 20.00 pH, ± 0.01 pH; mV ± 0.3 mV or ± 0.1 %.

Conductivity: 0.000 μ S/cm to 1000 mS/cm, ± 1.0 % FS; TDS 0.000 ppm to 300 ppt.

Ion: pX ± 0.01 pX; 1.000e-9 to 9.999e+9, ± 0.5 %.

DO: 0.00 to 50.00 mg/L, ± 0.10 mg/L; 0.0–300.0 %.

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

Connection: USB (PC, printer).

Core technical summary

Parameter	Specification
Model	VIKING-M310
SKU	PRO5382
Instrument type	Portable Multi-parameter Analyzer
Display	4.3" colour touchscreen
pH accuracy	± 0.01 pH
Conductivity range	0.000 μ S/cm to 1000 mS/cm
Ion accuracy	± 0.5 %
DO range	0.00 to 50.00 mg/L
Protection	IP67

PH ACCURACY

 ± 0.01 pH

CONDUCTIVITY ACCURACY

 ± 1.0 % FS

ION ACCURACY

 ± 0.5 %

DO RANGE

0.00 to 50.00 mg/L

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
pH range / accuracy	-2.00 to 20.00 pH; ± 0.01 pH	DO calibration	air-saturated water or zero oxygen; barometric and salinity correction
pH calibration	up to 5 points; NIST, GB, USA, DIN	Temperature range / accuracy	-5 to 110 °C / 23 to 230 °F; ± 0.2 °C
mV range / accuracy	-2000.0 to 2000.0 mV; ± 0.3 mV or ± 0.1 %	Temperature compensation	ATC / MTC
pX range / accuracy	-2.00 to 20.00 pX; ± 0.01 pX	Reading modes	AutoRead (fast / medium / slow), timed, continuous
Ion range / accuracy	1.000e-9 to 9.999e+9; ± 0.5 %	Display	4.3" colour touchscreen
Ion calibration	up to 5 points	Data memory	1000 results per parameter, GLP
Conductivity range / accuracy	0.000 μ S/cm to 1000 mS/cm; ± 1.0 % FS	Inputs	BNC (pH / ISE), 4-pin (temperature / DO), 5-pin (conductivity)
Conductivity calibration	up to 3 points	Outputs	USB (PC, printer)
Resistivity range	5.00 Ω -cm to 20.00 M Ω -cm	Auto power-off	300 / 600 / 1200 / 1800 / 3600 s or off
TDS range	0.000 ppm to 300 ppt	Power supply	Rechargeable Li battery; adapter 100-240 V AC / 5 V DC
Salinity	NaCl, 0.0 to 80.0 ppt, ± 2 ppt	Protection	IP67
DO range / accuracy	0.00 to 50.00 mg/L; ± 0.10 mg/L	Dimensions	90 × 255 × 40 mm
DO saturation	0.0-300.0 %	Weight	approx. 500 g

Specification notes

Electrodes: 3-in-1 pH electrode and conductivity cell plus DO electrode are included; ion-selective electrodes are ordered per ion (page 4).

Calibration: pH buffers 4.01 / 7.00 / 10.01 and 1413 μ S/cm standard are included.

Higher model: for more parameters, accuracy or connectivity see VIKING-M510T.

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Electrodes and Accessories



PRO4153
3-in-1 pH composite electrode E-301-QC
 pH + reference + temperature in one body; Ag/AgCl, 0–14 pH, BNC (Q9) and 4-pin connector.

Standard delivery



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



PRO6163
Polarographic DO electrode DO-958-Q
 DO + temperature, 0–20 mg/L (0–50 mg/L on dedicated meters), ABS body, 5–40 °C, $\Phi 12 \times 120$ mm, 4-pin connector, 1 m cable.

Standard delivery



DO electrode kit
 Zero-oxygen calibration solution, electrolyte and 3 membrane caps, supplied with the polarographic electrode.

Standard delivery



PRO6122
pH buffer set 4.01 / 7.00 / 10.01
 Standard pH buffer solutions, 50 mL each, for 3-point calibration.

Standard delivery



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

Standard delivery



Silicone protective case and wristband
 Shock-absorbing silicone sleeve and wristband for safe one-hand field use.

Standard delivery



PRO7006
Carrying case
 Protective case for the meter, electrode and buffers in field use.

Standard delivery

More electrodes and accessories

SKU	Item	Use	Status
PRO6998	Thermal printer 771000	Documentation / GLP	Optional
PRO6242	Chloride (Cl^-) ISE	Ion measurement	Optional
PRO6249	Nitrate (NO_3^-) ISE	Ion measurement	Optional
PRO7128	Fluoride ISE standard 0.1 mol/L, 250 mL	Calibration	Optional

Standard delivery: 3-in-1 pH electrode PRO4153, conductivity electrode PRO6154, polarographic DO electrode PRO6163 with kit, pH buffers and 1413 $\mu\text{S}/\text{cm}$ standard. Ion-selective electrodes, standards and ISA solutions are ordered per ion. Standard delivery is confirmed in the quotation.

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VIKING-M310 standard delivery: analyzer, electrodes, standards, electrode holder, silicone case, wristband, touch pen and carrying case

Ordering information

Item	Value
Model	VIKING-M310
SKU	PRO5382
Instrument type	Portable Multi-parameter Analyzer
Electrodes	pH PRO4153, EC PRO6154, DO PRO6163
Standards	pH 4.01 / 7.00 / 10.01, 1413 µS/cm
Also included	electrode holder, silicone case, wristband, touch pen, carrying case
Power supply	Li battery + 5 V DC adapter

Configuration checklist

Parameters: which of pH, EC, ions and DO you need to measure.

Place of use: field (portable, IP65 / IP67) or laboratory bench.

Ions: which ion-selective electrodes and standards.

Documentation: GLP records, USB export or printer.

Need more?: see VIKING-M510T.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-M310 is chosen when several water parameters are measured routinely and one instrument should replace separate meters. COLO.Science helps you choose electrodes, standards and ISA solutions.

QUICK CONTACT

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COLO.SCIENCE · MULTI-PARAMETER CONFIGURATION SUPPORT

Need help configuring electrodes for your parameters?

Tell us the parameters, ions and samples. COLO.Science will confirm the electrodes, standards and the VIKING-M310 configuration for your work.

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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