

VIKING-M500A Benchtop Multi-parameter pH/EC/ISE/ Temp. (mV/ ORP/pX/ Resistivity/ TDS/Sal.)

Product Details

Product Number

PRO5908



Technical Specification:

Features

General Features

- 7.0" color **high-contrast LCD touchscreen**.
- Intelligent OS with user, calibration, method, and data management.
- Multi-reading modes: auto-read, timed-read, continuous-read.
- Automatic/Manual temperature compensation (ATC/MTC) for accurate results.
- **Data storage: 1000 sets** per parameter (GLP-compliant) with review/compare/recalculate tools.
- USB or RS-232 communication.
- Factory reset to default options.
- IP54 water-resistant housing.

pH

- 1–6 point calibration with standard recognition.
- Selectable buffer groups: DIN, NIST, USA, MERK, JIS, GB; custom buffer set supported.
- Automatic electrode diagnosis with pH slope and offset display.

Ion (ISE)

- 1–6 point calibration.
- Selectable units: $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX, ppm, ppb.
- Measurement modes: Direct Reading, Standard Addition, Sample Addition, GRAN.
- 10+ built-in methods (F^- , Cl^- , Br^- , I^- , NO_3^- , BF_4^- , NH_4^+ , K^+ , Na^+ , Ca^{2+} , Cu^{2+} , Pb^{2+} , Ag^+ etc.) + user methods.

Conductivity (EC)

- 1–5 point calibration with standard recognition.
- Settable parameters: cell constant; reference temperature (5/10/15/18/20/25 °C); temperature coefficient; TDS factor.
- Temperature compensation types: none, linear, pure water.

Included

- 3-in-1 pH composite electrode **PRO4153**
- EC electrode **PRO6154**
- NIST pH standards (4.01 / 7.00 / 10.01), 50 ml each
- EC standard 1413 µS/cm, 50 ml
- **EHO-6** electrode stand
- Touch pen

Technical Specifications

Overview

Model **VIKING-M500A** (factory model: M500T-A)

Parameters pH / EC / ISE / Temp. (mV / ORP / pX / Resistivity / TDS / Salinity)

pH

Range	–2.000 to 20.000 pH
Resolution	0.1, 0.01, 0.001 pH
Accuracy	±0.002 pH
Calibration points	Up to 6
Standard customization	Yes
Calibration reminder	Yes
Standard recognition	NIST, GB, DIN, USA, MERK, JIS
Slope limit	Yes

mV / ORP

Range	–2000.00 to 2000.00 mV
Resolution	0.1, 0.01 mV
Accuracy	±0.1 mV or ±0.03% of reading (whichever is greater)
EH ORP mode	Yes
ORP calibration	1 custom point (relative mV)

pX

Range	–2.000 to 20.000 pX
Resolution	0.1, 0.01, 0.001 pX
Accuracy	±0.002 pX
Calibration points	Up to 6

ISE (Ion-Selective)

Range	1.000e-9 to 9.999e+9
Units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb
Resolution	Up to 4 significant digits
Accuracy	±0.3%

Calibration points Up to 6

Conductivity / Resistivity / TDS / Salinity

Conductivity range	0.000 µS/cm to 2000 mS/cm
Resolution (EC)	min 0.001 µS/cm (varies with range)
Accuracy (EC)	±0.5% FS
Reference temperature	5, 10, 15, 18, 20, 25 °C
EC calibration	Up to 5 points
Calibration reminder	Yes
Standard recognition	10 µS/cm, 84 µS/cm, 500 µS/cm, 1413 µS/cm, 12.88 mS/cm; 146.5 µS/cm, 1408 µS/cm, 12.85 mS/cm, 111.3 mS/cm
Resistivity	5.00 Ω·cm to 100.0 MΩ·cm (min res. 0.01 Ω·cm)
TDS	0.000 ppm to 1000 ppt (min res. 0.001 ppm; range-dependent)
Salinity type	%NaCl
Salinity range	0.0 to 80.0 ppt
Salinity resolution	0.1 ppt
Salinity accuracy	±1 ppt

Temperature & Measurement

Temperature range	-10 to 135 °C (14 to 275 °F)
Units	°C, °F
Resolution	0.1
Accuracy	±0.1 °C
Reading modes	Auto (Fast/Medium/Slow), Timed, Continuous
Prompts	Reading, Stable, Locked
Temp. compensation	ATC, MTC

Memory & Data

Data storage	1000 groups
GLP features	Yes
Log management	Yes

Inputs & Outputs

pH electrode	BNC (Q9)
DO with temp. probe	4-pin aviation connector
Conductivity with temp. probe	5-pin aviation connector
USB	USB 2.0 flash device; PC; scanner

Display & Power

Backlight Yes

Auto shutdown 1–60 min, or off

IP rating IP54

Date & time Yes

General

Power AC adapter, 100–240 V AC input, 24 V DC output

Dimensions 220 × 195 × 68 mm

Net weight 950 g (2.09 lb)

More laboratory equipment at

[COLO.Science](http://colo.science).

Accessories: