

VIKING-M600 Benchtop Multi-parameter Analyzer

Product Details

Product Number

PRO4198



Technical Specification:

Features

General Features

- 7.0" high-contrast color **LCD touchscreen**.
- Smart OS with user, calibration, method and data management.
- Multi-reading modes: auto-read, timed-read, continuous-read.
- Automatic/Manual temperature compensation for accurate results.
- **Data storage: 1000 sets** for each parameter (GLP-compliant) + data analysis (review/compare/recalculate).
- USB and RS-232 communication; supports USB 2.0 flash drive and printer.
- Factory reset to default options.
- IP54 splash-resistant housing.
- Modular design: pH/ISE, Conductivity, and Dissolved Oxygen modules.
- **Four channels** configurable in any combination from the three modules.

pH

- 1–6 point calibration with standard recognition.
- Buffer groups: NIST, DIN, GB; custom buffer group supported.
- Automatic electrode diagnostics (slope & offset display).

Ion (ISE)

- 1–6 point calibration.
- Units: $\mu\text{g/L}$, mg/L , g/L , mmol/L , pX , ppm , etc.
- 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

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

Dissolved Oxygen (DO) Functions

- Calibration: air-saturated water or zero oxygen.
- Automatic barometric pressure compensation.
- Manual salinity factor correction.
- Select pressure units: kPa, mbar, Torr, Atm.

Included

- pH composite electrode **PRO6139**
- Conductivity electrode
- Temperature probe **PRO6170**
- DO electrode (polarographic) **PRO6165**
- NIST pH standards 4.01 / 7.00 / 10.01 (50 ml each)
- EC standard 1413 µS/cm (50 ml)
- **EHO-3** electrode stand, touch pen

Technical Specifications

Overview

Model VIKING-M600

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

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

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%
EH ORP mode	Yes
ORP calibration	1–2 custom points (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
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 3000 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
Standard recognition	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 mg/L to 1000 g/L (min res. 0.001 ppm; range-dependent)
Salinity type	%NaCl
Salinity range	0.00–8.00 %
Salinity resolution	0.01 %
Salinity accuracy	±0.1 %

Dissolved Oxygen (Polarographic)

Concentration range	0.00 to 99.99 mg/L
Concentration resolution	0.01 mg/L
Concentration accuracy	±0.1 mg/L
% Saturation range	0.0 to 600 %
% Saturation resolution	0.10 %
% Saturation accuracy	±2.0 %
Calibration	Air-saturated water or zero point
Barometric compensation	Automatic
Salinity correction	Manual factor
Calibration reminder	Yes

Temperature & Measurement

Temperature range	-5 to 130 °C
Units	°C

Resolution	0.1 °C
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 (per parameter)
GLP features	Yes
Log management	Yes

Inputs & Outputs

pH electrode	BNC (Q9)
DO + Temp. probe	6-pin Mini-DIN
Conductivity + Temp. probe	8-pin Mini-DIN
Outputs	USB, RS-232; USB 2.0 flash device; printer; PC

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	280 × 280 × 130 mm
Net weight	2500 g (5.51 lb)
Carton	370 × 305 × 330 mm
Shipping weight	4 kg

Accessories: