

VIKING-DO511

Portable DO Meter • DO (mg/L) / Saturation / Temperature • 4.3" touchscreen • Optical (luminescence) • IP67 • GLP

VIKING-DO511 Portable DO Meter is a portable touchscreen dissolved oxygen meter with an optical (luminescence) sensor — no electrolyte, no membrane change and no oxygen consumption — with GLP memory, USB 2.0, Bluetooth and IP67 protection. It combines a 4.3" colour touchscreen, DO measurement from 0.00 to 20.00 mg/L (± 0.3 mg/L), saturation 0.0–200.0 %, air-saturated water or zero-oxygen calibration, barometric and salinity correction, a 1000-result memory (GLP), USB and Bluetooth connectivity and IP67 protection.

PORTABLE DO METER

DO (MG/L)

SATURATION

TEMPERATURE

4.3" TOUCHSCREEN

± 0.3 MG/L

OPTICAL (LUMINESCENCE)

ATC / MTC

GLP

USB

IP67

Document type: **Technical Specification Sheet**

Product: **VIKING-DO511 Portable DO Meter**

SKU: **PRO2427**

Format: **A4 landscape • 5 pages**

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VIKING-DO511 • Portable DO Meter

VIKING-DO511

Portable DO Meter

Operation guide

Installation • Calibration • Measurement • Maintenance



► [Watch the operation video \(4:16\) • installation, settings, calibration and DO measurement](#)

MODEL / SKU

**VIKING-DO511
PRO2427**

ADDRESS / HQ

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CONTACT

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VIKING-DO511 • technical specification

Portable touchscreen meter with optical sensor for DO, saturation and temperature

DO 0.00...20.00 MG/L

±0.3 MG/L

SATURATION 0.0–200.0 %

OPTICAL (LUMINESCENCE)

IP67

— Reliable dissolved oxygen measurement for field and laboratory use

Product Overview

Application profile

Wastewater treatment: aeration control, activated sludge and effluent checks.

Aquaculture and environment: fish farms, rivers, lakes and monitoring points.

Field and on-site: compact IP67 housing for sampling points and plants.

Food, beverages and process water: oxygen in process water, fermentation and quality control.

Key features

DO: 0.00 to 20.00 mg/L, ±0.3 mg/L.

Saturation: 0.0–200.0 %, 0.1 %, ±10.0 %.

Calibration: Air-saturated water or zero oxygen.

Temperature: 0 to 50 °C, ±0.1 °C, ATC / MTC.

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

Connection: 4-pin DO electrode input; USB 2.0, Bluetooth.

Core technical summary

Parameter	Specification
Model	VIKING-DO511
SKU	PRO2427
Instrument type	Portable DO Meter
Sensor type	Optical (luminescence)
Display	4.3" colour touchscreen
DO range	0.00 to 20.00 mg/L
DO accuracy	±0.3 mg/L
Saturation range	0.0–200.0 %
Data memory	1000 results (GLP)
Protection	IP67

Design and handling advantage

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

Sensor: optical sensor: no electrolyte, no membrane change, no polarisation time.

Corrections: barometric pressure and salinity factor for accurate mg/L in any sample.

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

DO ACCURACY

±0.3 mg/L

SATURATION RANGE

0.0–200.0 %

DATA MEMORY

1000 results

PROTECTION

IP67

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
Sensor type	Optical (luminescence)	Reading modes	AutoRead (fast / medium / slow), timed, continuous
DO range	0.00 to 20.00 mg/L	Reading prompts	Reading, Stable, Locked
DO resolution	0.01 mg/L	Display	4.3" colour touchscreen
DO accuracy	±0.3 mg/L	Data memory	1000 results per parameter, GLP
Saturation range	0.0–200.0 %	Management	Users, calibration, electrodes, methods, data analysis
Saturation accuracy	±10.0 %	Electrode input	4-pin connector (DO + temperature)
Units	mg/L (ppm), %	Outputs	USB 2.0 (flash drive, PC, scanner), Bluetooth
Calibration	Air-saturated water or zero oxygen	Auto power-off	300 / 600 / 1200 / 1800 / 3600 s or off
Pressure	Barometric pressure compensation	Power supply	Rechargeable Li battery; adapter 100–240 V AC / 5 V DC
Salinity correction	Manual salinity factor correction	Protection	IP67
Temperature range	0 to 50 °C	Dimensions	90 × 255 × 40 mm
Temperature accuracy	±0.1 °C	Weight	approx. 500 g
Temperature compensation	ATC / MTC		

Specification notes

Calibration: calibrate in water-saturated air or air-saturated water; add a zero-oxygen point for low DO values.

Corrections: enter the local air pressure and the sample salinity so that mg/L is calculated correctly.

Sensor care: the optical sensor needs no electrolyte; keep the sensor cap clean and replace it when indicated.

Higher model: for more range, memory or connectivity see VIKING-DO600.

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Electrodes and Accessories



PRO6164

Optical DO electrode (luminescence)

DO + temperature, 0.00–20.00 mg/L, no electrolyte and no membrane change, POM body, $\Phi 16 \times 150$ mm, 4-pin connector, 3 m cable.

Standard delivery



Zero-oxygen calibration powder (100 mL)

Prepares the zero-oxygen solution for zero-point 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



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.

Optional

More electrodes and accessories

SKU	Item	Use	Status
—	Zero-oxygen calibration powder (100 mL)	Zero-point calibration	Optional

The Optical DO electrode (luminescence) (PRO6164) connects to the 4-pin input and also measures temperature. Zero-oxygen calibration powder is included; the optical sensor needs no electrolyte or membrane change. Standard delivery is confirmed in the quotation.

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VIKING-DO511 standard delivery: meter, DO electrode, electrode holder, silicone case, wristband, touch pen and carrying case

Ordering information

Item	Value
Model	VIKING-DO511
SKU	PRO2427
Instrument type	Portable DO Meter
Standard electrode	Optical DO electrode (luminescence) (PRO6164)
Electrode kit	zero-oxygen powder
Also included	electrode holder, silicone case, wristband, touch pen, carrying case
Power supply	Li battery + 5 V DC adapter

Configuration checklist

Sample type: wastewater, surface water, aquaculture, BOD bottles, process water.

Range: expected DO and saturation (supersaturated samples need a wider range).

Sensor: polarographic (low cost) or optical (low maintenance).

Documentation: memory, GLP records, USB export or printer.

Need more?: see VIKING-DO600.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: VIKING-DO511 is chosen where maintenance must be minimal: the optical sensor needs no electrolyte or membrane change, does not consume oxygen and is ready to measure without polarisation time. COLO.Science helps you choose the electrode and consumables.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

 [Watch the operation video](#)

COLO.SCIENCE · DO METER CONFIGURATION SUPPORT

Need help choosing the right DO meter or electrode?

Tell us the sample type, the expected oxygen level and how you document results. COLO.Science will confirm the electrode, consumables and VIKING-DO511 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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