

# VIKING-DO510

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

**VIKING-DO510 Portable DO Meter** is a research-grade portable touchscreen dissolved oxygen meter with a polarographic sensor, DO up to 99.99 mg/L, method management, USB 2.0, Bluetooth and IP67 protection. It combines a 4.3" colour touchscreen, DO measurement from 0.00 to 99.99 mg/L ( $\pm 0.10$  mg/L), saturation 0.0–600.0 %, 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

$\pm 0.10$  MG/L

POLAROGRAPHIC

ATC / MTC

GLP

USB

IP67

Document type: **Technical Specification Sheet**

Product: **VIKING-DO510 Portable DO Meter**

SKU: **PRO4953**

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VIKING-DO510 • Portable DO Meter

## VIKING-DO510

Portable DO Meter

**Operation guide**

Installation • Calibration • Measurement • Maintenance



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

MODEL / SKU

**VIKING-DO510  
PRO4953**

ADDRESS / HQ

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SI-3255, Slovenia**

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# VIKING-DO510 • technical specification

Research-grade portable touchscreen meter for DO, saturation and temperature

DO 0.00...99.99 MG/L    ±0.10 MG/L    SATURATION 0.0–600.0 %    POLAROGRAPHIC    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.

### Design and handling advantage

**Clear display:** 4.3" colour touchscreen with guided menus for measurement, calibration and data.  
**Sensor:** polarographic electrode with replaceable membrane and refillable electrolyte.  
**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.

### Key features

**DO:** 0.00 to 99.99 mg/L, ±0.10 mg/L (0.00–50.00 mg/L); ±0.50 mg/L (50.00–99.99 mg/L).  
**Saturation:** 0.0–600.0 %, 0.1 %, ±2.0 %.  
**Calibration:** Air-saturated water or zero oxygen, calibration reminder.  
**Temperature:** –10 to 135 °C / 14 to 275 °F, ±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-DO510            |
| SKU              | PRO4953                 |
| Instrument type  | Portable DO Meter       |
| Sensor type      | Polarographic           |
| Display          | 4.3" colour touchscreen |
| DO range         | 0.00 to 99.99 mg/L      |
| DO accuracy      | ±0.10 mg/L              |
| Saturation range | 0.0–600.0 %             |
| Data memory      | 1000 results (GLP)      |
| Protection       | IP67                    |

DO ACCURACY  
 ±0.10 mg/L

SATURATION RANGE  
 0.0–600.0 %

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              | Polarographic                                               | Reading modes   | AutoRead (fast / medium / slow), timed, continuous     |
| DO range                 | 0.00 to 99.99 mg/L                                          | Reading prompts | Reading, Stable, Locked                                |
| DO resolution            | 0.01 mg/L                                                   | Display         | 4.3" colour touchscreen                                |
| DO accuracy              | ±0.10 mg/L (0.00–50.00 mg/L); ±0.50 mg/L (50.00–99.99 mg/L) | Data memory     | 1000 results per parameter, GLP                        |
| Saturation range         | 0.0–600.0 %                                                 | Management      | Users, calibration, electrodes, methods, data analysis |
| Saturation accuracy      | ±2.0 %                                                      | 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, calibration reminder    | 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        | –10 to 135 °C / 14 to 275 °F                                | 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:** replace the membrane and electrolyte when the response slows or calibration fails — see page 4.

**Higher model:** for more range, memory or connectivity see VIKING-DO511.

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## Electrodes and Accessories



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



### 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



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.

Optional

## More electrodes and accessories

| SKU | Item                                    | Use                    | Status   |
|-----|-----------------------------------------|------------------------|----------|
| —   | DO electrode filling solution, 100 mL   | Electrode maintenance  | Optional |
| —   | DO electrode membrane cap               | Electrode maintenance  | Optional |
| —   | Zero-oxygen calibration powder (100 mL) | Zero-point calibration | Optional |

The Polarographic DO electrode DO-958-Q (PRO6163) connects to the 4-pin input and also measures temperature. The electrode is supplied with zero-oxygen calibration solution, electrolyte and 3 membrane caps; further filling solution, membranes and zero-oxygen powder are available as consumables. Standard delivery is confirmed in the quotation.

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VIKING-DO510 standard delivery: meter, DO electrode, electrode holder, silicone case, wristband, touch pen and carrying case

#### Ordering information

| Item               | Value                                                                |
|--------------------|----------------------------------------------------------------------|
| Model              | VIKING-DO510                                                         |
| SKU                | PRO4953                                                              |
| Instrument type    | Portable DO Meter                                                    |
| Standard electrode | Polarographic DO electrode DO-958-Q (PRO6163)                        |
| Electrode kit      | zero-oxygen solution, electrolyte, 3 membrane caps                   |
| 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-DO511.

#### MANUFACTURER AND SUPPORT

### COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

**Selection guidance:** VIKING-DO510 brings benchtop-class performance to the field: DO up to 99.99 mg/L, saturation up to 600 %, method management, Bluetooth and IP67. COLO.Science helps you choose the electrode and consumables.

#### QUICK CONTACT

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 +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-DO510 configuration for your workflow.

Web: [colo.si](https://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](mailto:sales@colo.si) or call us.

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