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VIKING-DO510

Touch Screen Portable Dissolved Oxygen Meter · Polarographic DO / Temperature · IP65

VIKING-DO510 Touch Screen Portable DO Meter is a professional portable dissolved oxygen meter for field and laboratory measurement of dissolved oxygen, oxygen saturation and temperature. The instrument combines polarographic DO sensing, a 4.3" color touchscreen, Auto-Read measurement modes, Auto-Hold endpoint locking, GLP-compliant data storage, USB connectivity, rechargeable Li battery and IP65 protection in a robust portable format.

PORTABLE DO METER

POLAROGRAPHIC DO

DO PPM

% SATURATION

TEMPERATURE

4.3" TOUCHSCREEN

AUTO-HOLD

PRESSURE COMPENSATION

SALINITY CORRECTION

USB

IP65

Document type: **Technical Specification Sheet**

Product family: **Portable Dissolved Oxygen / Water Quality Meter**

Model: **VIKING-DO510** · Model code: **DO510T** · SKU: **PRO4953**

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VIKING-DO510 · touch screen portable dissolved oxygen / temperature meter · main instrument

MODEL / SKU

VIKING-DO510
PRO4953

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DO KNOWLEDGE

VIKING-DO510 · technical specification

Portable polarographic DO meter for dissolved oxygen, oxygen saturation and temperature measurement

DO 0.00 TO 99.99 PPM

0.0 TO 600.0%

TEMP. -10 TO 135°C

POLAROGRAPHIC SENSOR

AUTO / TIMED / CONTINUOUS READ

— Rugged portable DO measurement for field, water quality and laboratory workflows

Product Overview

Application profile

Water quality monitoring: suitable for drinking water, wastewater, surface water, aquaculture and routine environmental checks.

Field and laboratory use: portable touchscreen format with protective case, wristbands and carrying case for mobile operation.

Industrial sampling: supports dissolved oxygen checks in process water, effluent control and quality assurance sampling.

Education and research: suitable for practical training in dissolved oxygen measurement, oxygen saturation and temperature compensation.

Design and handling advantage

Polarographic DO measurement: polarographic sensor configuration supports wide-range DO concentration and saturation measurement with membrane/electrolyte maintenance.

Touchscreen interface: 4.3" color high-contrast LCD touchscreen for setup, calibration, measurement and stored data review.

Endpoint control: Auto-Read with Fast / Medium / Slow stability settings and Auto-Hold endpoint locking.

Data traceability: GLP-compliant storage for 1000 groups with review, compare and recalculation tools.

Key features

DO measurement: 0.00 to 99.99 ppm range with 0.01 ppm resolution and two-range accuracy: ± 0.10 ppm up to 50 ppm and ± 0.50 ppm above 50 ppm.

DO saturation: 0.0 to 600.0% range with 0.10% resolution and $\pm 2.0\%$ accuracy.

Temperature: -10 to 135°C measurement range with ATC / MTC support.

Compensation: automatic / manual barometric pressure compensation and manual salinity factor correction.

Connectivity: USB 2.0 interface for data connection.

Protection: IP65 waterproof housing and rechargeable Li battery for portable operation.

Core technical summary

Parameter	Specification
Model	VIKING-DO510
Model code / SKU	DO510T / PRO4953
Instrument type	Portable polarographic dissolved oxygen meter with temperature measurement
Display	4.3" color high-contrast LCD touchscreen
DO range	0.00 to 99.99 ppm
DO accuracy	0.00–50.00 ppm: ± 0.10 ppm 50.0–99.99 ppm: ± 0.50 ppm
DO saturation	0.0 to 600.0%
Temperature range	-10 to 135°C / 14 to 275°F
Data logging	1000 groups · GLP-compliant
Protection	IP65

Technical Specifications

Measurement ranges and performance

Parameter	Specification
Dissolved oxygen range	0.00 to 99.99 ppm
DO resolution	0.01 ppm
DO accuracy	0.00–50.00 ppm: ±0.10 ppm 50.0–99.99 ppm: ±0.50 ppm
DO saturation range	0.0 to 600.0%
DO saturation resolution	0.10%
DO saturation accuracy	±2.0%
Temperature range	-10 to 135°C / 14 to 275°F
Temperature unit	°C / °F
Temperature resolution	0.1
Temperature accuracy	±0.1°C
Sensor type	Polarographic dissolved oxygen sensor
Calibration	Air-saturated water or zero point
Pressure compensation	Automatic barometric pressure compensation
Pressure units	kPa / mbar / Torr / Atm
Salinity correction	Manual salinity factor correction

Measurement and reading modes

Function	Technical note
Auto-Read	Fast / Medium / Slow reading stability options.
Timed Read	Timed reading mode for scheduled measurement intervals.
Continuous Read	Continuous measurement display for real-time monitoring.
Reading prompts	Reading / Stable / Locked prompts.
Endpoint capture	Auto-Hold function for endpoint detection and locking.

Technical values are provided for product selection and orientation. Final delivered configuration, probe type, accessory set and documentation should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

System, data and connectivity

Parameter	Specification
Display	4.3" color high-contrast LCD touchscreen with backlight.
Menu management	User, calibration, electrode, method and data management.
Data capacity	1000 data groups.
GLP support	GLP-compliant data storage with review / compare / recalculate tools.
DO with temperature probe input	4-pin aviation connector.
Output / connectivity	USB 2.0 for flash memory device, PC or scanner.
Auto shutdown	300 / 600 / 1200 / 1800 / 3600 seconds, or off.
Power supply	Rechargeable Li battery; AC adapter 100–240 V AC input, 5 V DC output.
Protection rating	IP65 waterproof housing.
Dimensions	90 × 255 × 40 mm.
Weight	Approx. 500 g / 1.1 lb.
Product page	Open VIKING-DO510 product page
PDF catalog	Open VIKING-DO510 PDF

Specification note

Probe selection: final configuration should match the sample matrix, cable length and required field or laboratory workflow.

Compensation: pressure and salinity settings should be checked for the measurement location and sample conditions.

Field use: carrying case, protective case, rechargeable battery and IP65 housing support portable measurement workflows.

 **Standard Delivery, Accessories and Visual Support**



VIKING-DO510 · carrying case and portable accessories

Typical standard delivery

Polarographic DO electrode kit: PRO6163 polarographic DO electrode kit for dissolved oxygen measurement.

Calibration and probe consumables: zero oxygen calibration solution, dissolved oxygen electrolyte and 3 pcs electrode membrane covers.

Electrode holder: support accessory for stable probe handling.

Protective case: silicone rubber protective case with wristbands.

Touch pen: accessory for touchscreen operation.

Carrying case: protective storage and transport case for field and laboratory use.

Product image references



Main instrument · 4.3" touchscreen portable polarographic DO meter



Carrying case · portable protection and transport support

Configuration notice — delivery depends on selected options

Dissolved oxygen meters may be delivered in different configurations depending on application, selected probe, cable length, calibration requirements and accessory set. The final quotation and manufacturer-confirmed specification define the exact delivered configuration.

Display and operation

Display: 4.3" color high-contrast LCD touchscreen.

Operation: touch interface with user, calibration, electrode, method and data management.

Reading prompts: Reading / Stable / Locked indicators support repeatable endpoint documentation.

Input connectors

DO with temp. probe input: 4-pin aviation connector for the polarographic DO electrode / temperature probe connection.

Connectivity: USB 2.0 output for data connection.

Power: rechargeable Li battery with AC adapter, 100–240 V AC input and 5 V DC output.

Field workflow

Protection: IP65 housing for demanding field and laboratory environments.

Data: 1000 GLP groups with stored measurement records.

Compensation: pressure and salinity correction for practical water samples.

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PDF DATASHEET

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MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the sample type, expected dissolved oxygen range, salinity conditions, measuring location, field/laboratory use case, membrane/electrolyte maintenance requirements and preferred probe configuration. COLO.Science can help confirm the correct VIKING-DO510 configuration and accessory set for your water quality workflow.

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COLO.SCIENCE · VIKING-DO510 TOUCH SCREEN PORTABLE DISSOLVED OXYGEN METER SUPPORT

Need help selecting the correct portable DO meter configuration?

Send the sample matrix, measurement range, salinity and pressure conditions, required reporting format and expected field or laboratory use. COLO.Science can help confirm whether VIKING-DO510 is the correct polarographic DO configuration for your water quality, environmental or QA/QC workflow.

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Technical specification HTML: <https://colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-DO510.html>

PDF version: <https://colo.si/wp-content/images/TechSpec/WaterQualityP/VIKING-DO510.pdf>

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