

# VIKING-DO500

**Benchtop Dissolved Oxygen Meter · DO / Temperature · DO Saturation · 7.0" Touchscreen**

**VIKING-DO500 Benchtop Dissolved Oxygen Meter** is a laboratory instrument for reliable **DO concentration**, **DO saturation** and **temperature** measurement. The instrument combines a 7.0" high-contrast color touchscreen, polarographic DO sensor technology, intelligent user / calibration / method / data management, **GLP data storage**, **GMP log management**, automatic barometric pressure compensation and manual salinity factor correction.

BENCHTOP DO METER

DO / TEMP.

DO SATURATION

POLAROGRAPHIC

7.0" TOUCHSCREEN

ATC / MTC

1000 GROUPS GLP

GMP LOGS

USB 2.0 / RS-232

IP54

Document type: **Technical Specification Sheet**

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

Model: **DO-500T** · SKU: **PRO3167**

Product page: [colo.si/product/viking-do500-do-meter/](http://colo.si/product/viking-do500-do-meter/)

Format: **A4 landscape** · **COLO.Science TechSpec v2.4** with navigation links



VIKING-DO500 · benchtop dissolved oxygen meter · DO / temperature / DO saturation

MODEL / SKU

**DO-500T**  
**PRO3167**

ADDRESS / HQ

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**SI-3255, Slovenia**

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WATER QUALITY KNOWLEDGE

# VIKING-DO500 · technical specification

Benchtop dissolved oxygen meter for DO concentration, DO saturation and temperature

DO 0.00–99.99 PPM

DO SAT. 0.0–600%

TEMP. -10 TO 135°C

POLAROGRAPHIC

PRESSURE & SALINITY CORRECTION

— Laboratory DO measurement with touchscreen operation and GLP/GMP data workflow

## Product Overview

### Application profile

**Water quality laboratories:** dissolved oxygen and oxygen saturation checks for drinking water, surface water, wastewater and process water.

**Aquaculture and fisheries:** oxygen monitoring for tanks, ponds, aeration control and routine fish-farming supervision.

**Industrial QA/QC:** DO concentration and temperature checks in process-water workflows and environmental compliance routines.

**Education and research:** practical DO calibration, pressure compensation, salinity correction and polarographic probe training.

### Design and handling advantage

**Large touchscreen:** 7.0" high-contrast color LCD supports daily laboratory operation, method setup and data review.

**Intelligent operation:** user, calibration, method, data and GMP management help standardize measurement routines.

**Compensation tools:** automatic barometric pressure compensation and manual salinity factor correction support more reliable DO reporting.

**Traceability:** GLP-compliant storage of 1000 groups and GMP log support assist documentation and quality systems.

### Key features

**DO measurement:** 0.00–99.99 ppm range with 0.01 ppm resolution and  $\pm 0.1$  ppm accuracy.

**DO saturation:** 0.0–600% saturation range with 0.10% resolution and  $\pm 2.0\%$  accuracy.

**Temperature:** -10 to 135°C range, 0.1 resolution and  $\pm 0.1$ °C accuracy.

**Calibration:** air-saturated water or zero oxygen calibration with calibration reminder.

**Connectivity:** USB 2.0 and RS-232 for PC, printer, scanner, flash memory or autosampler workflows.

**Protection:** IP54 splash-resistant housing for stable benchtop use.

### Core technical summary

Parameter	Specification
Instrument	VIKING-DO500
Model / SKU	DO-500T · PRO3167
Instrument type	Benchtop dissolved oxygen meter
Parameters	DO / Temperature / DO Saturation
Display	7.0" color high-contrast LCD touchscreen
Sensor type	Polarographic
DO range	0.00–99.99 ppm
DO saturation	0.0–600%
Data logging	1000 groups · GLP data · GMP logs
Protection	IP54

DO ACCURACY

$\pm 0.1$  ppm

DO SATURATION

0.0–600%

DATA MEMORY

1000 groups GLP

CONNECTIVITY

USB 2.0 / RS-232

## Technical Specifications

### Measurement ranges and performance

Parameter	Specification
Instrument	VIKING-DO500
Model	DO-500T
Product number	PRO3167
Parameters	DO / Temperature / DO Saturation
Sensor type	Polarographic
DO range	0.00–50.00 ppm, ±0.10 ppm 50.0–99.99 ppm, ±0.50 ppm
DO resolution	0.01 ppm
DO accuracy	±0.1 ppm
Calibration reminder	Yes
Calibration points	Air-saturated water or zero point (zero oxygen)
Barometric compensation	Yes, automatic
Salinity correction	Manual salinity factor correction
Pressure units	kPa, mbar, Torr, Atm

### DO saturation and temperature

Parameter	Specification
DO saturation range	0.0 to 600%
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
Temperature compensation	ATC / MTC

### System, data and connectivity

Parameter	Specification
Display	7.0" color high-contrast LCD touchscreen.
Intelligent operation	User, calibration, method, data and GMP management.
Reading modes	Auto-Read Fast / Medium / Slow, Timed, Continuous.
Reading prompts	Reading, Stable, Locked.
Data storage	1000 groups, GLP-compliant.
GLP features	Yes.
Log management	Yes, GMP logs support.
Data analysis	Review, compare and recalculate results.
Reset	Factory default restore.
DO temp. probe input	4-pin aviation connector.
USB	USB 2.0: flash memory device, PC, scanner.
RS-232	Printer, auto-sampler.
Backlight	Yes.
Auto shutdown	1–60 min, or off.
IP rating	IP54.
Date and time	Yes.
Power	AC adapter, 100–240 V AC input, DC 24 V output.
Dimensions	220 × 195 × 68 mm.
Weight	950 g / 2.09 lb.
Expected PDF	<a href="#">Open VIKING-DO500 PDF</a>
HTML spec	<a href="#">Open VIKING-DO500 HTML</a>

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

 Standard Delivery, Accessories and Visual Support



VIKING-DO500 · touchscreen benchtop DO meter for laboratory measurement

**Typical standard delivery**

**PRO6163 polarographic DO electrode kit:** reference DO electrode kit for VIKING-DO500 dissolved oxygen workflows.

**Zero oxygen calibration solution:** used when a zero-point calibration is required by SOP or validation routine.

**Dissolved oxygen electrolyte:** consumable electrolyte for polarographic probe maintenance.

**Membrane covers:** 3 pcs electrode membrane covers for standard probe maintenance.

**Touch pen:** supplied for precise touchscreen operation.

**COLO-6 electrode stand:** stable electrode support for benchtop laboratory work.

**Product image references**



Main unit · 7.0" touchscreen DO / temperature / DO saturation meter



COLO.Science · water quality knowledge and technical support

**Navigation note — this specification is linked back to COLO.Science**

This technical specification contains direct links to the product page, quotation request page, COLO.Science home page and water-quality knowledge area. If a user opens this document directly from Google or on a mobile device, the page remains connected to the main website and quotation path.

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## Selection and Use Notes

### For DO measurement

**Probe preparation:** check membrane condition, electrolyte fill and absence of air bubbles before measurement.

**Calibration:** use air-saturated water for routine calibration and zero oxygen point when required by SOP.

### For sample control

**Pressure:** use automatic barometric pressure compensation and confirm the correct pressure unit.

**Salinity:** apply manual salinity correction for saline or high-ionic-strength samples.

### For GLP / GMP workflows

**Traceability:** use GLP data storage and GMP logs to support measurement record review.

**Export:** use USB 2.0 or RS-232 when printer, PC, scanner or autosampler workflow is required.

#### MANUFACTURER AND SUPPORT

### COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

**Selection guidance:** Send the sample type, DO reporting units, expected oxygen range, salinity conditions, temperature range, laboratory workflow and required documentation format. COLO.Science can help confirm the correct VIKING-DO500 configuration, probe consumables and accessory set for the intended workflow.

#### QUICK CONTACT

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 [VIKING-DO500 product page](#)

#### COLO.SCIENCE · VIKING-DO500 BENCHTOP DO METER SUPPORT

## Need help selecting the correct dissolved oxygen meter configuration?

Send the sample matrix, expected DO range, temperature and salinity conditions, reporting format and required accessories. COLO.Science can help confirm whether VIKING-DO500 is the correct configuration for your water quality, aquaculture, wastewater or QA/QC workflow.

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#### Official configuration and manufacturer-confirmed specification notice:

This technical specification is provided for orientation, product selection and general information only. It does not represent the final binding technical specification, delivered configuration, accessory set, procurement requirement or acceptance criterion for a specific unit. The final official technical specification is only the specification confirmed by the manufacturer and issued for the exact configuration through an official COLO.Science quotation, proforma invoice, contract document, order confirmation or manufacturer-approved technical offer. Any values, options, accessories or configurations shown in this document must be verified for the specific delivery and should not be used as an exclusion or elimination criterion in procurement procedures without written manufacturer confirmation.