Benchtop Dissolved Oxygen Meter - Touch Screen DO Meter - 0.00-99.99 ppm - 0-600% Saturation

Model **MSDO-B500TSWISS** | Brand **Master Science**





The Master Science Benchtop Dissolved Oxygen Meter measures oxygen concentration from 0.00 to 99.99 ppm and saturation from 0 to 600% with a polarographic sensor. Temperature is read by the same probe.

KEY HIGHLIGHTS

- Corrected results
- Suitable for saline samples
- Simple calibration
- Confident end points
- Complete records

AT A GLANCE

0.00 to 99.99 ppm DO RANGE	**ATC and MTC** TEMPERATURE COMPENSATION
±0.10 ppm (0.00-50.00 ppm); ±0.50 ppm (50.0-99.99 ppm) DO ACCURACY	**-10 to 135 °C (14 to 275 °F); resolution 0.1; accuracy ±0.1** TEMPERATURE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Results are corrected automatically for temperature and barometric pressure, and a salinity factor can be entered by hand. A colour touch screen runs an operating system with user, calibration, method and data management.

Conductivity on the same platform is covered by the Master Science benchtop conductivity meter.

Key Benefits

Corrected results
the Master Science Benchtop Dissolved Oxygen Meter compensates for temperature and air pressure.

Suitable for saline samples
salinity factor correction.

Simple calibration
air-saturated water or zero oxygen.

Confident end points
reading, stable and locked prompts.

Complete records
1000-set memory with user and method management.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSDO-B500TSWISS
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Parameters	Dissolved oxygen, DO saturation, temperature
Sensor Type	Polarographic
DO Range	**0.00 to 99.99 ppm**
DO Resolution	0.01 ppm
DO Accuracy	**±0.10 ppm (0.00-50.00 ppm); ±0.50 ppm (50.0-99.99 ppm)**
Calibration	Air-saturated water or zero point, with reminder
Barometric Compensation	Automatic; units kPa, mbar, Torr, atm
Salinity Correction	Manual factor
DO Saturation	0.0 to 600%; resolution 0.1%; accuracy ±2.0%
Temperature	-10 to 135 °C (14 to 275 °F); resolution 0.1; accuracy ±0.1
Reading Modes	Auto read (fast, medium, slow), timed, continuous
Temperature Compensation	ATC and MTC
Input	DO/temperature probe, 4-pin aviation connector
Auto Shutdown	1 to 60 min, or off
IP Rating	IP54
Power	AC adapter, 100-240 V AC input, DC 24 V output

DISPLAY & DATA

Data Storage	1000 groups, with GLP and log functions
Outputs	USB 2.0 (flash drive, PC); RS232 (printer, scanner, auto-sampler)
Display	Colour LCD touch screen with backlight

DIMENSIONS & WEIGHT

Dimensions	220 × 195 × 68 mm
Weight	950 g

COMMON PROBLEMS AND HOW THIS METER HELPS

Common Problems and How This Meter Helps	How the Master Science Benchtop Dissolved Oxygen Meter improves DO measurement:
Errors from altitude or weather	automatic pressure compensation.
Salty samples reading high	salinity correction.
Values recorded before stabilising	locked reading prompt.
Missed recalibration	calibration reminder.

Applications

The Master Science Benchtop Dissolved Oxygen Meter is used for: Laboratory measurement of dissolved oxygen in water Oxygen saturation checks Water quality analysis across different fields

Operation

- High-contrast colour touch screen
- Auto, timed and continuous reading
- Factory reset function

Compensation

- Automatic or manual temperature compensation
- Automatic barometric pressure compensation
- Selectable pressure units

Data

- Review, comparison and recalculation of results
- USB and RS-232 communication
- Calibration and log management