Optical Dissolved Oxygen Meter - Portable Optical DO Meter - 0.00-20.00 ppm - IP67 Waterproof

Model **MSDO-P511TSWISS** | Brand **Master Science**





The Master Science Optical Dissolved Oxygen Meter is a hand-held meter that uses an optical DO sensor. It measures oxygen concentration from 0.00 to 20.00 ppm and saturation from 0 to 200%, with temperature from 0 to 50 °C.

KEY HIGHLIGHTS

- Optical sensing
- Waterproof
- Site-corrected values
- Steady results
- Managed data

AT A GLANCE

0.00 to 20.00 ppm DO RANGE	**±0.3 ppm** DO ACCURACY
ATC and MTC TEMPERATURE COMPENSATION	**0 to 50 °C; resolution 0.1; relative accuracy ±0.2** TEMPERATURE

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

The meter compensates automatically for temperature and barometric pressure and accepts a manual salinity factor. It runs on a rechargeable lithium battery in an IP67 housing, with a colour touch screen and storage for 1000 result sets.

Key Benefits

Optical sensing
the Master Science Optical Dissolved Oxygen Meter uses an optical DO probe.

Waterproof
IP67 housing.

Site-corrected values
automatic pressure compensation.

Steady results
auto-hold locks the end point.

Managed data
user, electrode, method and log management.

For a wider range up to 99.99 ppm, see the Master Science portable dissolved oxygen meter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSDO-P511TSWISS
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Parameters	Dissolved oxygen, DO saturation, temperature
Sensor Type	Optical
DO Range	**0.00 to 20.00 ppm**
DO Resolution	0.01 ppm
DO Accuracy	**±0.3 ppm**
Calibration	Air-saturated water or zero point
Barometric Compensation	Automatic; units kPa, mbar, Torr, atm
Salinity Correction	Manual factor
DO Saturation	0.0 to 200.0%; resolution 0.1%; accuracy ±10.0%
Temperature	0 to 50 °C; resolution 0.1; relative accuracy ±0.2
Reading Modes	Auto read (fast, medium, slow), timed, continuous
Temperature Compensation	ATC and MTC
Input	DO/temperature probe, 6-pin aviation connector
Auto Shutdown	300, 600, 1200, 1800, 3600 s, or off
IP Rating	IP67
Power	Rechargeable lithium battery; AC adapter 100-240 V AC, DC 5 V output

DISPLAY & DATA

Data Storage	1000 groups, with GLP functions
Output	USB 2.0 (flash drive, PC, scanner)
Display	Colour LCD touch screen with backlight

DIMENSIONS & WEIGHT

Dimensions	90 × 255 × 40 mm
Weight	500 g

COMMON PROBLEMS AND HOW THIS METER HELPS

Common Problems and How This Meter Helps	How the Master Science Optical Dissolved Oxygen Meter helps in the field:
Meters failing after immersion	IP67 protection.
Pressure changes skewing results	automatic barometric compensation.
Brackish samples	salinity factor correction.
Readings written down by hand	1000-set memory and USB export.

Applications

The Master Science Optical Dissolved Oxygen Meter is used for: On-site dissolved oxygen measurement Oxygen saturation checks in water Water quality work in various fields

Operation

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

Calibration and Compensation

- Air-saturated water or zero oxygen calibration
- Automatic or manual temperature compensation
- Manual salinity factor
- Selectable pressure units

Data and Power

- Review, comparison and recalculation of results
- USB communication
- Auto power-off to extend battery life