Portable Dissolved Oxygen Meter - Handheld DO Meter with Touch Screen - 0.00-99.99 ppm - IP65

Model **MSDO-P510TSWISS** | Brand **Master Science**





The Master Science Portable Dissolved Oxygen Meter is a hand-held instrument with a colour touch screen and rechargeable lithium battery. Its polarographic sensor reads oxygen concentration from 0.00 to 99.99 ppm and saturation up to 600%, along with temperature.

KEY HIGHLIGHTS

- Field-ready
- Corrected for site conditions
- Locked end point
- Longer running time
- Traceable results

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

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Temperature and barometric pressure are compensated automatically and a salinity factor can be set manually. The housing is rated IP65, and auto-hold locks the measurement when it reaches its end point.

Key Benefits

Field-ready
the Master Science Portable Dissolved Oxygen Meter is battery powered and IP65 rated.

Corrected for site conditions
automatic pressure compensation.

Locked end point
auto-hold function.

Longer running time
auto power-off.

Traceable results
1000-set memory with user and electrode management.

The laboratory version is the Master Science benchtop dissolved oxygen meter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSDO-P510TSWISS
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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 600.0%; resolution 0.1%; accuracy ±2.0%
Temperature	-10 to 135 °C (14 to 275 °F); resolution 0.1; relative 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	300, 600, 1200, 1800, 3600 s, or off
IP Rating	IP65
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 (W×D×H)	90 × 255 × 40 mm
Package Dimensions (W×D×H)	420 × 350 × 190 mm
Net / Gross Weight	0.5 kg / 3.5 kg

COMMON PROBLEMS AND HOW THIS METER HELPS

Common Problems and How This Meter Helps	How the Master Science Portable Dissolved Oxygen Meter helps in the field:
Wrong values at altitude	automatic barometric compensation.
Rain and splashes	IP65 housing.
Unsteady readings	auto-hold at the end point.
Flat batteries	rechargeable cell with auto power-off.

Applications

The Master Science Portable 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

- Review, comparison and recalculation of results
- USB communication
- Log management