Portable Multi-Parameter Meter - Handheld pH EC ISE Water Analyzer - 0.001 pH Resolution - IP67

Model **MSBEP-M510ASWISS** | Brand **Master Science**





The Master Science Portable Multi-Parameter Meter puts pH, conductivity and ion-selective electrode measurement in one hand-held instrument. From those channels it also reports mV/ORP, pX, resistivity, TDS, salinity and temperature.

KEY HIGHLIGHTS

- One meter for the whole sampling round
- Works in wet conditions
- Reliable end points
- Longer field days
- Traceable data

AT A GLANCE

-2.000 to 20.000 pH / ±0.002 pH PH RANGE / ACCURACY	**0.000 µS/cm to 3000 mS/cm** CONDUCTIVITY RANGE
5, 10, 15, 18, 20, 25 °C REFERENCE TEMPERATURE	**±0.5% FS; resolution from 0.001 µS/cm** CONDUCTIVITY ACCURACY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

pH is read from -2.000 to 20.000 at ±0.002 and conductivity from 0.000 µS/cm to 3000 mS/cm at ±0.5% FS. The IP67 body has a 4.3-inch colour touch screen and a rechargeable lithium battery, and stores 1000 result sets for each parameter.

Overview

- 1 to 8 point calibration with standard recognition
- User-defined buffers
- Slope and offset diagnosis

Overview

- 1 to 8 point calibration
- Direct reading, standard addition, sample addition and GRAN modes
- More than 10 built-in methods plus user-defined methods

Key Benefits

One meter for the whole sampling round
the Master Science Portable Multi-Parameter Meter covers pH, conductivity and ions.

Works in wet conditions
IP67 waterproofing.

Reliable end points
auto-hold function.

Longer field days
rechargeable battery with auto power-off.

Traceable data
user, electrode, method and log management.

For a single-parameter instrument, see the Master Science portable conductivity meter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSBEP-M510ASWISS
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Parameters	pH, conductivity, ISE, temperature; mV/ORP, pX, resistivity, TDS, salinity
pH Range / Accuracy	**-2.000 to 20.000 pH / ±0.002 pH**
pH Resolution	0.1, 0.01, 0.001 pH
pH Calibration	Up to 8 points; USA, NIST, DIN, GB, JIS and other buffer groups; custom standards; reminder
mV/ORP	-2000.00 to 2000.00 mV; ±0.1 mV or ±0.03%; EH mode
pX	-2.000 to 20.000 pX; ±0.002 pX; up to 6 points
ISE	1E-9 to 9.999E9; ±0.3%; up to 8 calibration points
ISE Units	mol/L, mmol/L, g/L, mg/L, µg/L
Conductivity Range	**0.000 µS/cm to 3000 mS/cm**
Conductivity Accuracy	**±0.5% FS; resolution from 0.001 µS/cm**
Conductivity Calibration	Up to 5 points; standards 10, 84, 500, 1413 µS/cm and 12.88 mS/cm recognised
Reference Temperature	5, 10, 15, 18, 20, 25 °C
Resistivity	5.00 Ω·cm to 100.00 MΩ·cm; ±0.5% FS
TDS	0.000 ppm to 1000 ppt; ±0.5% FS
Salinity	0.0 to 80.0 ppt; resolution 0.1 ppt; ±1 ppt
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
Inputs	pH electrode BNC (Q9); 4-pin and 5-pin aviation connectors for probes with temperature
IP Rating	IP67
Power	Rechargeable lithium battery; AC adapter 100-240 V AC, DC 5 V output

DISPLAY & DATA

Data Storage	1000 groups per parameter, with GLP functions
Output	USB 2.0 (flash drive, PC, scanner)
Display	4.3-inch colour LCD touch screen with backlight

DIMENSIONS & WEIGHT

Dimensions	90 × 255 × 40 mm
Package Dimensions (W×D×H)	360 × 300 × 180 mm
Net / Gross Weight	0.5 kg / 2.6 kg

COMMON PROBLEMS AND HOW THIS METER HELPS

Common Problems and How This Meter Helps	How the Master Science Portable Multi-Parameter Meter simplifies field water testing:
Carrying several meters	three measuring channels in one unit.
Rain and immersion	IP67 housing.
Different records per instrument	one memory with 1000 sets per parameter.
Unstable readings logged	auto-hold at the end point.

The Master Science Portable Multi-Parameter Meter is used in

- **Health and disease control**
- **Environmental protection**
- **Agriculture and forestry**
- **Water quality analysis**
- **Scientific research and higher education**

Conductivity

- 1 to 5 point calibration with automatic standard recognition
- Settable cell constant, reference temperature, compensation coefficient and TDS factor
- None, linear or pure water compensation

General

- High-contrast colour touch screen
- Data review, comparison and recalculation
- USB communication
- Factory reset

Optional Accessories

- Ion-selective electrodes (chosen by ion)