Portable Water Hardness Meter - Handheld Hardness Tester - 0.05-200 mmol/L, 500 Data Sets

Model **MSBEP-M322SWISS** | Brand **Master Science**





The Master Science Portable Water Hardness Meter brings laboratory-style hardness measurement to the sampling point. It reads water hardness and temperature together, covering 0.05 to 200 mmol/L, and reports in mmol/L, mg/L, German degrees (°dH), English degrees (°e) or French degrees (°f).

KEY HIGHLIGHTS

- Made for field work
- Five hardness units
- Reliable calibration
- Stable results
- Data kept safe

AT A GLANCE

0 to 105.0°C TEMPERATURE RANGE	**±1% F.S.** ACCURACY
0.1°C TEMPERATURE RESOLUTION	**±0.5°C** TEMPERATURE ACCURACY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Running on three AA batteries or a DC 5 V adapter, the Master Science Portable Water Hardness Meter is calibrated on 2 to 5 points and keeps up to 500 data sets in memory. The USB port serves both for data transfer and for connecting the power adapter.

Key Benefits

Made for field work
: the Master Science Portable Water Hardness Meter weighs 300 g and runs on AA batteries.

Five hardness units
: mmol/L, mg/L, °dH, °e and °f.

Reliable calibration
: 2 to 5 points from low to high concentration.

Stable results
: Auto-Read locks the endpoint.

Data kept safe
: 500 data sets with USB transfer.

For a fixed laboratory station, see the Master Science benchtop water hardness meter.

Technical Specifications

GENERAL

General	Specifications of the Master Science Portable Water Hardness Meter are listed here.
Brand	Master Science
Model Number	MSBEP-M322SWISS
SKU	MSBEP-M322SWISS
Water Hardness Range	**0.05 to 200 mmol/L; 0 to 1122 °dH; 0 to 2000 °fH; 0 to 1404 °e; 0 to 8020 mg/L (Ca2+); 0 to 19999 mg/L (CaCO3); 0 to 11220 mg/L (CaO)**
Resolution	0.001, 0.01, 0.1, 1
Accuracy	**±1% F.S.**
Calibration Points	2 to 5 points (0.01, 0.1, 1, 10, 100 mmol/L)
Temperature Range	**0 to 105.0°C**
Temperature Resolution	0.1°C
Temperature Accuracy	**±0.5°C**
Temperature Offset Calibration	1 point, reading ±10°C
Temperature Compensation	0 to 50°C, manual or automatic
Hold Function	Manual or auto-endpoint
Auto-Off	10, 20 or 30 minutes after last key press
Connector	BNC, 3.5 mm jack socket
Power	3 x 1.5 V AA batteries or DC 5 V power adapter

DISPLAY & DATA

Memory	500 data sets
Communication Interface	USB
Display	Custom LCD (80 x 60 mm)

DIMENSIONS & WEIGHT

Dimensions	170 x 85 x 30 mm
Net Weight	300 g

COMMON PROBLEMS THIS METER SOLVES

Common Problems This Meter Solves	Field hardness testing tends to run into the same obstacles.
Samples change on the way to the lab	: measure on the spot with a 300 g handheld.
Batteries drain between sites	: auto power-off after 10, 20 or 30 minutes.
Readings lost on paper notes	: 500 data sets stay in memory until downloaded.
Different units requested by different clients	: switch between five hardness units.

Applications

The Master Science Portable Water Hardness Meter suits on-site hardness checks such as: Drinking water and well water surveys Boiler and cooling water rounds Water treatment plant monitoring Environmental field sampling

Measurement

- 2 to 5 point calibration from low to high concentrations
- Selectable hardness units: mmol/L, mg/L, German degree (°dH), English degree (°e) and French degree (°f)
- Automatic temperature compensation for accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint

Operation and Data

- Calibration due alarm reminds the user to recalibrate regularly
- Auto power-off conserves battery life
- Setup menu for number of calibration points, stability criteria and more
- Reset function restores all settings to factory defaults
- Memory stores and recalls up to 500 data sets
- USB interface for data transfer or for connecting a power adapter