Benchtop Water Hardness Meter - Laboratory Hardness Tester - 0.05-200 mmol/L, 2-5 Point Calibration

Model **MSBEP-M922SWISS** | Brand **Master Science**





The Master Science Benchtop Water Hardness Meter gives a direct reading of total hardness in water samples, from 0.05 up to 200 mmol/L. Results can be shown in mmol/L, mg/L, German degrees (°dH), English degrees (°e) or French degrees (°f), so the meter matches whichever unit your reports use.

KEY HIGHLIGHTS

- Wide working range
- Your unit, your choice
- Dependable calibration
- Stable endpoints
- Traceable records

AT A GLANCE

0.0 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

Calibration runs on 2 to 5 points spread from low to high concentration. The Master Science Benchtop Water Hardness Meter compensates for temperature, locks the reading once it is stable, stores up to 500 data sets and passes them to a PC over USB.

Published specifications for the Master Science Benchtop Water Hardness Meter are as follows.

The Master Science Benchtop Water Hardness Meter is used wherever water hardness must be checked, for example:

Key Benefits

Wide working range
: the Master Science Benchtop Water Hardness Meter covers 0.05 to 200 mmol/L.

Your unit, your choice
: mmol/L, mg/L, °dH, °e or °f.

Dependable calibration
: 2 to 5 points across the range.

Stable endpoints
: Auto-Read locks the result.

Traceable records
: 500 data sets with USB transfer.

For ionic content alongside hardness, see the Master Science benchtop EC meter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSBEP-M922SWISS
SKU	MSBEP-M922SWISS
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	**0.0 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
Stability Criteria	Low or high
Calibration Due Alarm	1 to 31 days or off
Connector	BNC, 3.5 mm jack socket
Power	DC 5 V power adapter

DISPLAY & DATA

Memory	500 data sets
Communication Interface	USB
Display	Custom LCD (125 x 100 mm)

DIMENSIONS & WEIGHT

Dimensions	310 (L) x 240 (W) x 190 (H) mm
Weight	1.8 kg

COMMON PROBLEMS THIS METER SOLVES

Common Problems This Meter Solves	Hardness testing by hand has familiar weak points.
Slow, operator-dependent titrations	: the meter gives a direct reading in the unit you select.
Unit conversions cause errors	: five hardness units are built in.
Overdue calibration goes unnoticed	: the due alarm can be set from 1 to 31 days.
Results copied by hand	: 500 stored data sets move to a PC over USB.

Applications

- **Drinking water and water treatment laboratories**
- **Boiler and cooling water monitoring**
- **Quality control in food and beverage plants**
- **Environmental and teaching laboratories**

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 on schedule
- 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 to a PC