Benchtop Conductivity Meter - Touch Screen EC TDS Salinity Meter - 0.001 µS/cm to 2000 mS/cm - IP54

Model **MSCON-B500TSWISS** | Brand **Master Science**





The Master Science Benchtop Conductivity Meter is a water quality instrument with a 7-inch colour touch screen. It reads conductivity from 0.000 µS/cm to 2000 mS/cm and also reports resistivity, TDS, salinity and temperature.

KEY HIGHLIGHTS

- Four parameters from one probe
- From ultrapure water to brine
- Calibration made simple
- Splash protection
- Organised records

AT A GLANCE

0.000 µS/cm to 2000 mS/cm
CONDUCTIVITY RANGE

temperature measurement up to 135 °C.
HOT SAMPLES OUTSIDE THE PROBE RANGE

±0.5% FS
CONDUCTIVITY ACCURACY

5, 10, 15, 18, 20, 25 °C
REFERENCE TEMPERATURE

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

It was developed for demanding water management tasks such as multi-effect distilled water systems, boiler water, condensate and heat exchange circuits that run at elevated temperature; the temperature channel covers -10 to 135 °C. The operating system handles users, calibrations, methods and data.

Key Benefits

Four parameters from one probe
the Master Science Benchtop Conductivity Meter gives conductivity, resistivity, TDS and salinity.

From ultrapure water to brine
range up to 2000 mS/cm.

Calibration made simple
automatic recognition of standards.

Splash protection
IP54 housing.

Organised records
user, method and data management.

For field use, see the Master Science portable conductivity, TDS and salinity meter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSCON-B500TSWISS
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Conductivity Range	**0.000 µS/cm to 2000 mS/cm**
Conductivity Resolution	0.001 µS/cm minimum, range dependent
Conductivity Accuracy	**±0.5% FS**
Reference Temperature	5, 10, 15, 18, 20, 25 °C
Calibration	Up to 5 points, with reminder
Standard Recognition	10, 84, 500, 1413 µS/cm, 12.88 mS/cm; 146.5, 1408 µS/cm, 12.85, 111.3 mS/cm
Resistivity	5.00 Ω·cm to 100.00 MΩ·cm; ±0.5% FS
TDS	0.000 to 1000 ppt; ±0.5% FS
Salinity (NaCl)	0 to 80.0 ppt; resolution 0.1 ppt; ±1 ppt
Temperature	-10 to 135 °C (14 to 275 °F); resolution 0.1; accuracy ±0.1
Reading Modes	Auto read (fast, medium, slow), timed, continuous
Temperature Compensation	ATC and MTC; none, linear or pure water
Input	Conductivity/temperature probe, 5-pin aviation connector
Auto Shutdown	1 to 60 min, or off
IP Rating	IP54
Power	AC adapter, 100-240 V AC input, DC 24 V output

DISPLAY & DATA

Data Storage	1000 groups per parameter, with GLP and log functions
Outputs	USB 2.0 (flash drive, PC, scanner); RS232 (printer, auto-sampler)
Display	7.0-inch colour LCD touch screen with backlight

DIMENSIONS & WEIGHT

Dimensions	220 × 195 × 68 mm
Weight	950 g

COMMON PROBLEMS AND HOW THIS METER HELPS

Common Problems and How This Meter Helps	How the Master Science Benchtop Conductivity Meter supports water analysis:
Hot samples outside the probe range	**temperature measurement up to 135 °C.**
Wrong standard entered at calibration	automatic standard recognition.
Unstable values recorded too early	stable and locked reading prompts.
Results scattered on paper	1000-record memory with USB export.

Applications

The Master Science Benchtop Conductivity Meter is used for
Multi-effect distilled water systems Boiler water and condensate Heat exchange systems General water quality management

Operation

- High-contrast colour touch screen
- Reading prompts: reading, stable, locked
- Factory reset function

Settings

- Cell constant
- Reference temperature
- Temperature compensation coefficient
- TDS factor

Data

- Review, comparison and recalculation of results
- USB and RS-232 communication
- Calibration and log management