Benchtop EC Meter - Laboratory Conductivity TDS Salinity Meter - 0.001 µS/cm to 1000 mS/cm - IP54

Model **MSCON-B300FSWISS** | Brand **Master Science**





The Master Science Benchtop EC Meter is a button-operated conductivity meter with a 7-inch high-resolution LCD. It measures conductivity from 0.000 µS/cm to 1000 mS/cm together with resistivity, TDS, salinity and temperature.

KEY HIGHLIGHTS

- Clear at a glance
- Fewer calibration mistakes
- Stable results
- Protected from splashes
- Printer and PC ready

AT A GLANCE

0.000 µS/cm to 1000 mS/cm CONDUCTIVITY RANGE	**±1.0% FS** CONDUCTIVITY ACCURACY
20, 25 °C REFERENCE TEMPERATURE	**ATC and MTC; none, linear or pure water** TEMPERATURE COMPENSATION

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

support@themsci.com
www.themsci.com

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Overview

Up to three calibration points are accepted and the standard solutions are recognised automatically. Auto-hold locks the reading at the end point, and 500 results per parameter are stored. It is intended for distilled water systems, boiler water, condensate and heat exchange circuits.

> For touch-screen control and a wider range, see the Master Science benchtop conductivity meter.

Key Benefits

Clear at a glance
the Master Science Benchtop EC Meter shows all values on a 7-inch display.

Fewer calibration mistakes
standards recognised automatically.

Stable results
auto-hold at the end point.

Protected from splashes
IP54 housing.

Printer and PC ready
RS-232 and USB.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSCON-B300FSWISS
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Conductivity Range	**0.000 µS/cm to 1000 mS/cm**
Conductivity Resolution	0.001 µS/cm minimum, range dependent
Conductivity Accuracy	**±1.0% FS**
Reference Temperature	20, 25 °C
Calibration	Up to 3 points
Standard Recognition	84 µS/cm, 1413 µS/cm, 12.88 mS/cm
Resistivity	5.00 Ω·cm to 20.00 MΩ·cm; ±1.0% FS
TDS	0.00 ppm to 300 ppt; ±1.0% FS
Salinity (NaCl)	0.0 to 80.0 ppt; resolution 0.1 ppt; ±2 ppt
Temperature	-5.0 to 110 °C (23.0 to 230 °F); resolution 0.1; accuracy ±0.2
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 9 V output

DISPLAY & DATA

Data Storage	500 results per parameter, with GLP functions
Outputs	USB (PC); RS232 (printer)
Display	7.0-inch LCD with backlight
Small displays that are hard to read	7-inch LCD.

DIMENSIONS & WEIGHT

Dimensions	242 × 195 × 68 mm
Weight	900 g

COMMON PROBLEMS AND HOW THIS METER HELPS

Common Problems and How This Meter Helps	How the Master Science Benchtop EC Meter supports routine conductivity work:
Guessing when a value has settled	stable and locked prompts.
Separate meters for TDS and salinity	all parameters from one probe.
Lost readings	500-result memory.

Applications

The Master Science Benchtop EC Meter is used for
Distilled water systems Boiler water and condensate Heat exchange systems Routine laboratory water analysis

Measurement

- Auto, timed and continuous reading
- Reading prompts: reading, stable, locked
- Automatic or manual temperature compensation

Settings

- Cell constant
- Temperature compensation coefficient
- TDS factor
- Factory reset

Data

- 500-set storage per parameter
- Date and time stamp
- USB and RS-232 communication