Portable Conductivity Meter - Handheld EC TDS Salinity Meter - 0.001 µS/cm to 3000 mS/cm - IP67

Model **MSCON-P510TSWISS** | Brand **Master Science**





The Master Science Portable Conductivity Meter is a hand-held water quality instrument with a 4.3-inch colour touch screen and a rechargeable lithium battery. It measures conductivity from 0.000 µS/cm to 3000 mS/cm, plus resistivity, TDS, salinity and temperature.

KEY HIGHLIGHTS

- Lab functions in the field
- Survives wet sites
- Steady end points
- Longer battery life
- Wide span

AT A GLANCE

0.000 µS/cm to 3000 mS/cm CONDUCTIVITY RANGE	**±0.5% FS** CONDUCTIVITY ACCURACY
5, 10, 15, 18, 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

The IP67 housing withstands immersion, and the auto-hold function locks the reading when the end point is reached. Like the bench version, it targets distilled water systems, boiler water, condensate and heat exchange circuits, with a temperature channel up to 135 °C.

Key Benefits

Lab functions in the field
the Master Science Portable Conductivity Meter has user, electrode, method and data management.

Survives wet sites
IP67 waterproofing.

Steady end points
auto-hold locks the result.

Longer battery life
automatic power-off.

Wide span
from ultrapure water up to 3000 mS/cm.

For the laboratory bench, see the Master Science benchtop conductivity meter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSCON-P510TSWISS
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Conductivity Range	**0.000 µS/cm to 3000 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 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; none, linear or pure water
Input	Conductivity/temperature probe, 5-pin aviation connector
Auto Shutdown	300, 600, 1200, 1800, 3600 s, or off
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
Weight	500 g

HOW THE MASTER SCIENCE PORTABLE CONDUCTIVITY METER HELPS ON SITE

Meters damaged by splashes or drops into water	IP67 protection.
Drifting readings noted too soon	auto-hold at the end point.
Batteries flat mid-survey	rechargeable cell with auto power-off.
No record of field results	1000-set memory and USB transfer.

Applications

The Master Science Portable Conductivity Meter is used for
On-site water quality checks Distilled water systems
Boiler water and condensate Heat exchange systems

Operation

- High-contrast colour touch screen
- Auto, timed and continuous reading
- Factory reset function

Calibration

- 1 to 5 points
- Automatic recognition of standard solutions
- Calibration reminder

Settings and Data

- Cell constant, reference temperature, compensation coefficient and TDS factor
- Review, comparison and recalculation of results
- USB communication