Portable Conductivity/TDS/Salinity Meter

Model **MSQI651SWISS** | Brand **Master Science** | Unit **Pc**



Conductivity/TDS/Salinity Meter

This versatile and highly accurate portable meter is essential for various industries and research fields that require precise water quality measurements.

KEY HIGHLIGHTS

- Multi-point Calibration
- Automatic Electrode Diagnosis
- Selectable Measurement Modes
- Auto-Read Function
- Calibration Due Alarm

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

support@themsci.com
www.themsci.com

Scan to view online

Key Features

Multi-point Calibration
Supports 1 to 5-point calibration with automatic recognition for conductivity standards to ensure accurate readings.

Automatic Electrode Diagnosis
Displays calibration points and factors to ensure the electrode is functioning correctly.

Selectable Measurement Modes
Offers multiple modes for conductivity, TDS (Total Dissolved Solids), salinity, resistivity, and temperature with settings for applications like seawater or pure water compensation.

Auto-Read Function
Automatically locks the measurement when it reaches a stable endpoint, eliminating manual intervention.

Calibration Due Alarm
Alerts the user when calibration is due, ensuring measurement consistency.

Energy Saving
Auto-power off feature conserves battery life when the meter is idle.

Customizable Settings
Allows users to set calibration points, stability criteria, temperature units, date, and time.

Factory Reset Function
Automatically restores factory settings for convenience.

USB Communication Interface
Facilitates easy data transfer to a PC for further analysis or management.

Multi-Mode Power Options
Operates on AA batteries, a power adapter, or a USB port for flexibility in usage.

Technical Specifications

PARAMETER	SPECIFICATION
Memory Capacity	Stores up to 500 data sets for easy recall and record-keeping.
Conductivity Range (Standard)	2 µS/cm to 20,000 µS/cm
Automatic Temperature Compensation (ATC)	Provides accurate readings across a wide temperature range (0-105°C or 32-221°F).

Applications

Water Quality Monitoring
Ideal for measuring conductivity, TDS, salinity, and resistivity in various environmental conditions.

Aquaculture & Fisheries
Essential for monitoring water quality parameters in fish farming and aquatic environments.

Laboratories
Used for research and testing in academic and commercial laboratories for water analysis.

Standard Accessories Included

- 3 x 1.5V AA batteries or DC5V power adapter
- Battery Life: Approximately 150 hours (with backlight off)
- Dimensions: 171 x 86 x 31 mm
- Weight: 302g

Optional Accessories

- 0.01 µS/cm to 0.1 µS/cm
- 0.1 µS/cm to 2 µS/cm
- 20,000 µS/cm to 200 mS/cm
- Accuracy: ±0.5% FS
- Resolution: 0.001, 0.01, 0.1, 1
- Calibration Points: 1 to 5 points
- Calibration Solutions: 10 µS/cm, 84 pS/cm, 1413 pS/cm, 12.88 mS/cm, 111.8 mS/cm
- TDS Range:
- 0 to 10,000 ppm, 100 to 1000 ppm, 10 to 200 ppt
- Accuracy: ±1% FS
- Resolution: 0.01, 0.1, 1
- TDS Factor: Adjustable between 0.1 and 1.0 (default 0.5)
- Salinity Range:
- 0.00 to 42.00 psu, 0.00 to 80.00 ppt
- Accuracy: ±1% FS
- Resolution: 0.01
- Resistivity Range:
- 0.00 to 20.00 MΩ•cm
- Accuracy: ±1% FS
- Resolution: 0.01
- Temperature Range:
- 0 to 105°C (32 to 221°F)
- Accuracy: ±0.5°C (±0.9°F)
- Resolution: 0.1°C (0.1°F)
- Temperature Compensation:
- 0 to 100°C (manual or automatic)
- Temperature Coefficient: Linear (0.0-10.0%/°C), non-linear, pure water
- Cell Constant: K=0.1, 1, 10
- Stability Criteria: Low or high stability options
- Calibration Due Alarm: Set reminder between 1 to 31 days or off
- Hold Function: Manual or auto endpoint hold
- Auto-Off: Automatically turns off after 10, 20, or 30 minutes of inactivity
- Memory: Stores up to 500 data sets
- USB Interface: For easy data transfer to PC
- Display: Custom LCD (80x60mm)

> Suitable for industries requiring precise monitoring of water or solution quality, such as manufacturing or water treatment.