

## MW170 MAX



MW170

Conductivity / TDS / NaCl / Temperature Laboratory Bench Meter

Rating: Not Rated Yet

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### Description

#### **MW170 MAX Autoranging Conductivity / TDS / NaCl / Temperature Laboratory Bench Meter**

**MW170 MAX** is a compact and versatile bench meter that can measure up to four different parameters: EC, TDS, salinity (in PSU, g/L, percentage NaCl) and temperature. The main operating modes are setup, calibration, measurement and logging.

- Easy to read LCD display
- Auto-off feature to prolong battery life
- All measurements can be temperature compensated automatically (ATC), or manually (MTC) with a user-selectable compensation coefficient.
- Temperature compensation can be disabled (NO TC) if the actual conductivity value is required.
- The auto-ranging feature for both EC and TDS measurements automatically sets the most suitable resolution for the tested sample.
- Available log space for up to 1000 records. Logged data can be exported using a USB cable.

- Dedicated GLP key to store and recall data on system status
- Built-in rechargeable battery with 8 hours battery life

Specifications	MW170 MAX
Range	EC 0.00 to 29.99 $\mu$ S/cm; 30.0 to 299.9 $\mu$ S/cm; 300 to 2999 $\mu$ S/cm; 3.00 to 29.99 mS/cm; 30.0 to 290.0 mS/cm; up to 500.0 mS/cm absolute conductivity*
TDS	0.00 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm); 1.5 to 14.99 g/L (ppt); 15.0 to 100.0 g/L (ppt); up to 400.0 g/L absolute TDS* (with 0.80 factor)
Salinity	0.0 to 40.0 ‰ NaCl; 2.00 to 42.00 PSU; 0.00 to 80.00 g/L
Temp	-20.0 to 120.0 °C / -4.0 to 248.0 °F
Resolution	EC 0.01 $\mu$ S/cm; 0.1 $\mu$ S/cm; 1.0 $\mu$ S/cm; 0.01 mS/cm; 0.1 mS/cm
TDS	0.01 mg/L; 0.1 mg/L; 1.0 mg/L; 0.01 g/L; 0.1 g/L
Salinity	0.1‰ NaCl; 0.01 PSU; 0.01 g/L
Temp	0.1°C / 0.1°F
Accuracy	EC $\pm$ 1% of reading ( $\pm$ 0.05 $\mu$ S/cm or 1 digit, whichever is greater)
(@ 25 °C / 77 °F)	TDS $\pm$ 1% of reading ( $\pm$ 0.03 ppm or 1 digit, whichever is greater)
Salinity	$\pm$ 1% of reading
Temp	$\pm$ 0.5 °C; $\pm$ 0.9 °F
Calibration	EC/TDS Single cell factor calibration 6 standards: 84 $\mu$ S/cm, 1413 $\mu$ S/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm
Salinity	one-point offset: 0.00 $\mu$ S/cm
Temp	one-point with MA9006 Salinity calibration solution
Temp. Compensation	2 points, 0 to 50 °C / 32 to 122 °F
	ATC – automatic, from -5 to 100 °C (23 to 212 °F)
	MTC – manual, from -5 to 100 °C (23 to 212 °F)
Temp. Coefficient	No TC – without temperature compensation
Probe	0.00 to 0.00 % / °C (EC & TDS only) Default value: 1.90 % / °C
TDS Factor	MA814DB/1 4-ring probe with built-in temperature sensor (included)
Log	0.40 to 0.50 Default value: 0.50
PC connectivity	Maximum 1000 records; On demand, max. 200 samples; On stability, max. 200 samples
Environment	Interval logging, max. 1000 samples (max. 100 lbs)
Power supply	1 micro USB port
Battery life	0 to 50 °C, max RH 95%
Packaging dimensions	12 VDC adapter (included)
Packaging weight	8 hours
	335 x 120 x 255 mm
	2.16 kg

(\*) Absolute conductivity (or TDS) is the conductivity value without temperature compensation.

**Accessories:**

- MA814DB/1 4-ring Conductivity/TDS/NaCl/Temperature probe with DIN connector and 1 meter cable
- MA9060 12880  $\mu$ S/cm calibration solution, 230 mL bottle
- MA9061 1413  $\mu$ S/cm calibration solution, 230 mL bottle
- MA9063 84  $\mu$ S/cm calibration solution, 230 mL bottle
- MA9064 80000  $\mu$ S/cm conductivity solution, 230 mL bottle
- MA9065 111.8 mS/cm calibration solution, 230 mL bottle
- MA9066 100% NaCl calibration solution, 230 mL bottle
- MA9069 5000  $\mu$ S/cm solution, 230 mL bottle
- MA9315 Electrode Holder

**Ordering information:**

MW170 is supplied complete with MA814D/1 EC/Temperature probe; MA9315 Electrode Holder; Micro USB cable; 12 VDC Adapter; Instruction Manual