

MW170 MAX

Autoranging EC/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



- 3 Years warranty
- LOG
- USB
- ATC
- MTC
- Data Display
- Self diagnostic
- GLP
- CE

Specifications	MW170 MAX	
Range	EC	0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 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 Temp	0.0 to 400.0 ‰ NaCl; 2.00 to 42.00 PSU; 0.00 to 80.00 g/L -20.0 to 120.0 °C / -4.0 to 248.0 °F
Resolution	EC	0.01 µS/cm; 0.1 µS/cm; 1.0 µS/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 Temp	0.1 ‰ NaCl; 0.01 PSU; 0.01 g/L 0.1 °C / 0.1 °F
Accuracy (@ 25 °C / 77 °F)	EC	±1% of reading (±0.05 µS/cm or 1 digit, whichever is greater)
	TDS	±1% of reading (±0.03 ppm or 1 digit, whichever is greater)
	Salinity Temp	±1% of reading ±0.5 °C; ±0.9 °F
Calibration	EC/TDS	Single cell factor calibration 6 standards: 84 µS/cm, 1413 µS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm one-point offset: 0.00 µS/cm
	Salinity Temp	one-point with MA9066 Salinity calibration solution 2 points, 0 to 50 °C / 32 to 122 °F
Temp. Compensation	ATC – automatic, from -5 to 100 °C (23 to 212 °F) MTC – manual, from -5 to 100 °C (23 to 212 °F) No TC – without temperature compensation	
Temp. Coefficient	0.00 to 6.00 % / °C (EC & TDS only) Default value: 1.90 % / °C	
Probe	MA814DB/1 4-ring probe with built-in temperature sensor (included)	
TDS Factor	0.40 to 0.80 Default value: 0.50	
Log	Maximum 1000 records; On demand, max. 200 samples; On stability, max. 200 samples Interval logging, max. 1000 samples (max. 100 lots)	
PC connectivity	1 micro USB port	
Environment	0 to 50 °C; max RH 95%	
Power supply	12 VDC adapter (included)	
Battery life	8 hours	
Packaging dimensions	335 x 120 x 255 mm	
Packaging weight	2.16 kg	

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

More accurate readings with the 4-RING MA814DB/1 EC/TDS/NaCl and Temperature probe!

Conductivity readings are performed by applying an alternate current to the 4-ring probe which creates a variable voltage depending on the conductivity.



Rear Connector Panel layout

Communication to the PC is done via a micro USB port.



Accessories

- MA814DB/1** EC/Temperature probe with DIN connector and 1 m cable
- MA9060** 12880 µS/cm calibration solution, 230 mL bottle
- MA9061** 1413 µS/cm calibration solution, 230 mL bottle
- MA9063** 84 µS/cm calibration solution, 230 mL bottle
- MA9064** 80000 µS/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 µS/cm solution, 230 mL bottle
- MA9310** 12 VDC Adapter, 220 V
- MA9311** 12 VDC Adapter, 110 V
- MA9315** Electrode holder
- MA9350** RS232 connection cable with 2 meters cable

Ordering Information

- MW170 MAX** is supplied complete with
- **MA814DB/1** EC/TDS/NaCl/Temperature Probe
 - **MA9315** Electrode Holder
 - **MA9310** 12 VDC Adapter
 - Instruction manual