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 recordsyLogged 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 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	0.0 to 400.0 % 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 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	0.1% NaCl; 0.01 PSU; 0.01 g/L
Temp	0.1°C / 0.1°F
Accuracy EC	±1% of reading (±0.05 μS/cm or 1 digit, whichever is greater)
(@ 25 °C / 77 °F) TDS	±1% of reading (±0.03 ppm or 1 digit, whichever is greater)
Salinity	±1% of reading
Temp	±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	one-point with MA9066 Salinity calibration solution
Temp	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/NaCI 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 MA9065 111.8 mS/cm calibration solution, connector and 1 m cable 230 mL bottle MA9060 12880 µS/cm calibration solution, MA9066 100% NaCl calibration solution, 230 mL bottle 230 mL bottle MA9061 1413 μS/cm calibration solution, MA9069 5000 µS/cm solution, 230 mL bottle 230 mL bottle MA9310 12 VDC Adapter, 220 V MA9063 84 µS/cm calibration solution, MA9311 12 VDC Adapter, 110 V 230 mL bottle Electrode holder MA9315 MA9064 80000 µS/cm conductivity solution, MA9350 RS232 connection cable with 230 mL bottle 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