

MW180 MAX is a compact and versatile bench meter with a user-friendly interface that can measure six different parameters - pH, ORP, EC, TDS (Total Dissolved Solids), percentage of salinity (NaCl%) and temperature - when paired with the respective probe.

MW180 MAX

pH calibration can be performed in up to 5-point (selectable between 7 standard calibration buffers and two custom buffers), to improve measurement reliability even when testing samples with wide differences in pH.

The auto-ranging feature for both EC and TDS measurements automatically sets the most suitable resolution for the tested sample. All measurements can be automatically (ATC) or manually temperature compensated (MTC) with a user-selectable compensation coefficient. The temperature compensation can be disabled if the actual conductivity value is required (No

MW180 MAX has GLP data review and the data can be transfered to a PC through a USB port.

A unique device identity code protects against the risks of loss and misuse.

Specifications	MW180 MAX
Range pH	-2.00 to 20.00 pH; -2.000 to 20.000 pH
ORP	±2000 mV
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 cond.*)
TDS	0.0 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm);
	1.50 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 pH	0.01 pH; 0.002 pH
ORP	0.1 mV
EC	0.01 μS/cm; 0.1 μS/cm; 1 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 pH	±0.01 pH; ±0.002 pH
ORP	±1 mV
EC	±1% of reading ±(0.05 μS/cm or 1 digit)
TDS	±1% of reading ±(0.03 ppm or 1 digit)
Salinity	±1% reading
Temp	±0.5°C / ±0.9°F
Temperature Compensation	ATC – automatic, from -20 to 120 °C (-4 to 248 °F)
	MTC – manual, from -20 to 120 °C (-4 to 248 °F)
	NO TC – without temperature compensation
Temperature Coefficient	0.00 to 6.00%/°C (EC and TDS only)
TDS Factor	0.40 to 0.80 (default value is 0.50)
Logging memory	Two independent storage spaces. Each save location can contain max. 1000 log
	records (stored in up to 100 lots).
all Electricals	On demand, 200 logs; on stability, 200 logs; interval logging, 1000 logs
pH Electrode EC/TDS/NaCl/Temp. Probe	MA917B/1 (included) MA814DB/1 (included)
	MA831R
Temperature probe PC connectivity	1 USB port, 1 micro USB port
Power supply	12 VDC adapter (included)
Battery type	internal
Battery life	8 hours
Environment	0 to 50°C; max RH 95%
Packaging dimensions	335 x 120 x 255 mm
Packaging dimensions Packaging weight	2.44 kg
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(*) Absolute conductivity (or TDS) is the conductivity (or TDS) value without temperature compensation















Accessories

MA9004 pH 4.01 buffer, 230 mL bottle MA9007 pH 7.01 buffer, 230 mL bottle MA9010 pH 10.01 buffer, 230 mL bottle

MA9015 Electrode storage solution, 230 mL bottle MA9016 Electrode cleaning solution, 230 mL bottle MA9112 pH 12.45 buffer solution, 230 mL bottle 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

MA9065 111.8 mS/cm calibration solution.

230 ml bottle

MA9066 100% NaCl calibration solution,

230 mL bottle

 $5000 \mu S/cm$ solution, 230 mL bottle MA9069

MA9310 12 VDC Adapter, 220 V MA9311 12 VDC Adapter, 110 V MA9315 Electrode Holder

Double junction refillable pH electrode MA917R/1 MA814DB/1 EC/TDS/NaCl/Temperature probe with DIN connector and 1 m cable

MA924B/1 ±2000 mV Glass ORP electrode. refillable with BNC connector and

1 meter cable

Platinum ORP electrode with 1 meter cable SE300

MA831R Temperature probe

MA9350 RS232 connection cable with 2 meters cable

Ordering Information

MW180 MAX is supplied complete with

- MA917B/1 pH Electrode
- MA814DB/1 EC/TDS/NaCl/Temperature probe
- MA831R Temperature Probe
- M10004 pH 4.01 Sachet Buffer solution
- M10007 pH 7.01 Sachet Buffer solution
- M10010 pH 10.01 Sachet Buffer solution
- M10031 1413 µS/cm calibration solution
- M10016 Sachet Electrode Cleaning solution MA9315 Electrode Holder
- · Graduated pipette
- 12 VDC adapter
- USB cable
- · Instrument quality certificate
- · Instruction manual

