MW180 MAX

pH/ORP/EC/TDS/NaCl/Temperature Laboratory Bench Meter

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.
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 TC).

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.

Years warranty 2
LOG
MEM
USB
ATC
GLP
Points 2
Dual Display
MULTI
Self diagnostics
CE

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). On demand, 200 logs; on stability, 200 logs; interval logging, 1000 logs
pH Electrode		**MA917B/1** (included)
EC/TDS/NaCl/Temp. Probe		**MA814DB/1** (included)
Temperature probe		**MA831R**
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 weight		2.44 kg

(*) 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
MA9069	5000 µS/cm solution, 230 mL bottle
MA9310	12 VDC Adapter, 220 V
MA9311	12 VDC Adapter, 110 V
MA9315	Electrode Holder
MA917B/1	Double junction refillable pH electrode
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
SE300	Platinum ORP electrode with 1 meter cable
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