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# MW306 MAX

## Automatic & Logging EC/TDS/NaCl/Temperature Meter

**MW306 MAX** is a waterproof and portable meter with a user-friendly interface. Designed to measure four different parameters – EC, TDS, percentage of salinity in psu (NaCl%) and temperature – the meter is suitable for multiple applications.

- IP67 waterproof casing
- Data logging: 1000 logs can be stored in the built-in memory including readings, GLP data, date and time
- Different logging methods: manual log-on-demand (max. 200 logs); manual log-on-stability (max. 200 logs) and interval log (max. 600 samples; 100 lots)
- auto-ranging feature for both EC and TDS measurements automatically sets the most suitable resolution for the tested sample.
- GLP data review and the data can be transferred to a PC through a USB port.

### Hard Carrying Case

The meter is supplied in a hard carrying case ideal for field measurements.



Specifications	MW306 MAX
<b>Range</b>	<p><b>EC</b> 0.00 to 29.99 <math>\mu\text{S/cm}</math>; 30.0 to 299.9 <math>\mu\text{S/cm}</math>; 300 to 2999 <math>\mu\text{S/cm}</math>; 3.00 to 29.99 <math>\text{mS/cm}</math>; 30.0 to 200.0 <math>\text{mS/cm}</math>; up to 500.0 <math>\text{mS/cm}</math> absolute EC*</p> <p><b>TDS</b> 0.00 to 14.99 <math>\text{mg/L}</math>; 15.0 to 149.9 <math>\text{mg/L}</math>; 150 to 1499 <math>\text{mg/L}</math>; 1.50 to 14.99 <math>\text{g/L}</math>; 15.0 to 100.0 <math>\text{g/L}</math>; up to 400.0 <math>\text{g/L}</math> absolute (*) TDS (with 0.80 factor)</p> <p><b>Salinity</b> 0.0 to 400.0 % NaCl 2.00 to 42.00 PSU</p> <p><b>Temp</b> 0.00 to 80.00 <math>^{\circ}\text{C}</math> -20.0 to 120.0 <math>^{\circ}\text{C}</math>; -4.0 to 248.0 <math>^{\circ}\text{F}</math></p>
<b>Resolution</b>	<p><b>EC</b> 0.01 <math>\mu\text{S/cm}</math>; 0.1 <math>\mu\text{S/cm}</math>; 1 <math>\mu\text{S/cm}</math>; 0.01 <math>\text{mS/cm}</math>; 0.1 <math>\text{mS/cm}</math></p> <p><b>TDS</b> 0.01 <math>\text{mg/L}</math>; 0.1 <math>\text{mg/L}</math>; 1 <math>\text{mg/L}</math>; 0.01 <math>\text{g/L}</math>; 0.1 <math>\text{g/L}</math></p> <p><b>Salinity</b> 0.1% NaCl; 0.01 PSU; 0.01 <math>\text{g/L}</math></p> <p><b>Temp</b> 0.1 <math>^{\circ}\text{C}</math>; 0.1 <math>^{\circ}\text{F}</math></p>
<b>Accuracy (@ 25 <math>^{\circ}\text{C}</math> / 77 <math>^{\circ}\text{F}</math>)</b>	<p><b>EC</b> <math>\pm 1\%</math> of reading (<math>\pm 0.05 \mu\text{S/cm}</math> or 1 digit, whichever is greater)</p> <p><b>TDS</b> <math>\pm 1\%</math> of reading (<math>\pm 0.03 \text{ ppm}</math> or 1 digit, whichever is greater)</p> <p><b>Salinity</b> <math>\pm 1\%</math> of reading</p> <p><b>Temp</b> <math>\pm 0.5 \text{ }^{\circ}\text{C}</math>; <math>\pm 0.9 \text{ }^{\circ}\text{F}</math></p>
<b>Calibration</b>	<p><b>EC/TDS</b> Single cell factor calibration 6 standards: 84 <math>\mu\text{S/cm}</math>, 1413 <math>\mu\text{S/cm}</math>, 5.00 <math>\text{mS/cm}</math>, 12.88 <math>\text{mS/cm}</math>, 80.0 <math>\text{mS/cm}</math>, 111.8 <math>\text{mS/cm}</math> one-point offset: 0.00 <math>\mu\text{S/cm}</math> one-point with MA9066 Salinity calibration solution</p> <p><b>Salinity</b> MA9066 Salinity calibration solution</p>
<b>Temperature Compensation</b>	<p>ATC – automatic, from -5 to 100 <math>^{\circ}\text{C}</math> (23 to 212 <math>^{\circ}\text{F}</math>)</p> <p>MTC – manual, from -20 to 120 <math>^{\circ}\text{C}</math> (23 to 212 <math>^{\circ}\text{F}</math>)</p> <p>NO TC – without temperature compensation</p>
<b>Temperature Coefficient</b>	0.00 to 6.00 % / $^{\circ}\text{C}$ (EC & TDS only) Default value: 1.90 % / $^{\circ}\text{C}$
<b>TDS Factor</b>	0.40 to 0.80 Default value: 0.50
<b>EC Probe</b>	<b>MA815D/1</b>
<b>Log</b>	<p>Max. 1000 log records (stored in up to 100 lots)</p> <p>On demand, 200 logs / On stability, 200 logs / Interval logging, 1000 logs</p>
<b>PC connectivity</b>	1 micro USB port
<b>Power supply</b>	12 VDC adapter (included)
<b>Battery life</b>	Approx. 200 hours of use
<b>Auto-off</b>	5, 10, 30, 60 minutes or off
<b>Environment</b>	0 to 50 $^{\circ}\text{C}$ ; max RH 95%
<b>Casing</b>	IP67
<b>Packaging dimensions</b>	305 x 280 x 115 mm
<b>Packaging weight</b>	1.22 kg

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

### Accessories



- MA815D/1** 4-ring EC/TDS/NaCl/Temperature probe with DIN connector and 1 meter cable
- M10030B** 12880  $\mu\text{S/cm}$  calibration solution, 20 mL sachet, 25 pcs.
- M10031B** 1413  $\mu\text{S/cm}$  calibration solution, 20 mL sachet, 25 pcs.
- M10035B** 111.8  $\text{mS/cm}$  calibration solution, 20 mL sachet, 25 pcs.
- MA9060** 12880  $\mu\text{S/cm}$  calibration solution, 230 mL bottle
- MA9061** 1413  $\mu\text{S/cm}$  calibration solution, 230 mL bottle
- MA9063** 84  $\mu\text{S/cm}$  calibration solution, 230 mL bottle
- MA9065** 111.8  $\text{mS/cm}$  calibration solution, 230 mL bottle
- MA9066** 100% NaCl calibration solution, 230 mL bottle
- MA9069** 5000  $\mu\text{S/cm}$  solution, 230 mL bottle

### Ordering Information

**MW306 MAX** is supplied in a hard carrying case complete with

- **MA815D/1** 4-ring EC/TDS/NaCl/Temperature probe with DIN connector and 1 meter cable
- **MA9316** electrode holder
- 12 VDC adapter
- Micro USB cable
- Instrument quality certificate
- Instruction manual