

SM801/SM802

Portable pH/EC/TDS combination Meters

3 meters in 1! These meters allow you to measure pH, EC (conductivity) and TDS with just one instrument and one single probe!

The SM801 with a Conductivity range that goes up to 1990 $\mu\text{S}/\text{cm}$ and TDS range that goes up to 1990 ppm is an ideal tool for drinking water measurements.

The SM802, with a conductivity range that goes up to 6.00 mS/cm and the TDS up to 4000 ppm is ideal for testing in crop production. Soil and well water pH that is too acidic or alkaline can have an adverse effect on plant nutrient and water uptake and directly effect the efficiency of fertilizer, herbicides and pesticides.

Soil Conductivity is checked before fertilizer application to pinpoint field needs and after fertilization to establish its effectiveness.

Supplied with the MA850 interchangeable probe to measure pH, Conductivity and TDS.

The pH electrode utilizes a fiber junction to reduce contamination when measuring fertilizer solutions.

Both meters calibrate manually in pH, Conductivity and TDS.



Specifications		 SM801	 SM802
Range	pH EC TDS	0.0 to 14.0 pH 0 to 1990 $\mu\text{S}/\text{cm}$ 0 to 1990 ppm	0.00 to 14.00 pH 0.00 to 6.00 mS/cm 0 to 4000 ppm
Resolution	pH EC TDS	0.1 pH 10 $\mu\text{S}/\text{cm}$ 10 ppm	0.10 pH 0.01 mS/cm 10 ppm
Accuracy (@20°C)	pH EC/TDS	± 0.2 pH $\pm 2\%$ Full Scale	± 0.20 pH $\pm 2\%$ Full Scale
Calibration Solutions		M10007 (pH 7.01) M10032 (1382 ppm) M10031 (1413 $\mu\text{S}/\text{cm}$)	M10007 (pH 7.01) M10442 (1500 ppm) M10031 (1413 $\mu\text{S}/\text{cm}$)
Conversion Factor		0.5	0.68
Calibration		manual, at 1 point	manual, at 1 point
Temperature Compensation		automatic, from 0 to 50°C	automatic, from 0 to 50°C
Probe		MA850 combination pH/EC/TDS probe	MA850 combination pH/EC/TDS probe
Environment		0 to 50°C / 32 to 122°F; max RH 95%	0 to 50°C / 32 to 122°F; max RH 95%
Battery Type / Battery Life		1 x 9 V alkaline / 150 hours of use	1 x 9 V alkaline / 150 hours of use
Auto-off		after 8 minutes of non-use	after 8 minutes of non-use
Dimensions		185 x 82 x 45 mm	185 x 82 x 45 mm
Weight		165 g (with battery)	165 g (with battery)

Combined interchangeable pH, Conductivity and TDS Probe

The pH electrode utilizes a fiber junction to reduce contamination when measuring fertilizer solutions.

pH Calibration

Adjust the calibration knob until the LCD shows the pH value at the above measured temperature.

EC/TDS Calibration

Turn the EC/TDS calibration knob until the display shows the EC or TDS reading at 25°C.



Accessories

M10004B	pH 4.01 buffer solution, 20 mL sachet (25 pcs)	M10032B	1382 ppm calibration solution, 20 mL sachet (25 pcs)
M10007B	pH 7.01 buffer solution, 20 mL sachet (25 pcs)	M10442B	1500 ppm calibration solution, 20 mL sachet (25 pcs)
M10010B	pH 10.01 buffer solution, 20 mL sachet (25 pcs)	MA 9015	Electrode storage solution, 230 mL bottle
M10031B	1413 $\mu\text{S}/\text{cm}$ calibration solution, 20 mL sachet (25 pcs)	MA850	pH/EC/TDS spare probe with 1 m cable



Ordering Information

SM801 is supplied complete with MA850 combination pH/EC/TDS probe, 20 mL sachet pH 7.01 buffer solution, 20 mL 1413 $\mu\text{S}/\text{cm}$ sachet of calibration solution, 20 mL 1382 ppm sachet of calibration solution, 9V battery and instructions.

SM802 is supplied complete with MA850 combination pH/EC/TDS probe, 20 mL sachet pH 7.01 buffer solution, 20 mL 1413 $\mu\text{S}/\text{cm}$ sachet of calibration solution, 20 mL 1500 ppm sachet of calibration solution, 9V battery and instructions.