

SM301/SM302/SM401/SM402

Portable Conductivity & TDS Meters

SM301, SM302, SM401 and SM402 are conductivity and TDS Portable Meters, with Automatic Temperature Compensation, and are ideal for the educational and agricultural markets.

Soil conductivity is checked before fertilizer application to pinpoint field needs and after fertilization to establish its effectiveness. The EC testing provides all agricultural operation with a method to optimize chemical applications and minimize operational cost.

These instruments have been designed to meet the Grower's need for equipment suited to the aggressive environments found in agricultural and hydroponics applications.

Choose your portable EC & TDS meter according to the proper EC/TDS ranges for your application:

- **SM301:** 0 to 1990 $\mu\text{S}/\text{cm}$ with a 10 $\mu\text{S}/\text{cm}$ resolution;
- **SM302:** 0.0 to 10.0 mS/cm with a 0.1 mS/cm resolution;
- **SM401:** 0 to 1990 mg/L (ppm) with a 10 mg/L resolution;
- **SM402:** 0.0 to 10.0 g/L (ppt) with a 0.1 g/L resolution.

Each meter is supplied complete with Conductivity/TDS probe with 1 meter cable and calibration solution.



Specifications	SM301	SM302	SM401	SM402
Range	0 to 1990 $\mu\text{S}/\text{cm}$	0.0 to 10.0 mS/cm	0 to 1990 mg/L (ppm)	0.0 to 10.0 g/L (ppt)
Resolution	10 $\mu\text{S}/\text{cm}$	0.1 mS/cm	10 mg/L (ppm)	0.1 g/L (ppt)
Accuracy (@25°C)	$\pm 2\%$ Full Scale	$\pm 2\%$ Full Scale	$\pm 2\%$ Full Scale	$\pm 2\%$ Full Scale
Conversion Factor			0.5	0.5
Calibration Solutions (included)	1413 $\mu\text{S}/\text{cm}$ (M10031B)	1413 $\mu\text{S}/\text{cm}$ (M10031B)	1382 mg/L (M10032B)	6.44 g/L (M10038B)
Conductivity Probe	MA811D/1 (included)	MA812D/1 (included)	MA811D/1 (included)	MA812D/1 (included)
Temperature Compensation	automatic, from 5 to 50°C	automatic, from 5 to 50°C	automatic, from 5 to 50°C	automatic, from 5 to 50°C
Environment	0 to 50°C, max RH 95%	0 to 50°C, max RH 95%	0 to 50°C, max RH 95%	0 to 50°C, max RH 95%
Battery Type	1 x 9V alkaline (included)	1 x 9V alkaline (included)	1 x 9V alkaline (included)	1 x 9V alkaline (included)
Battery Life	approx. 300 hours of use	approx. 300 hours of use	approx. 300 hours of use	approx. 300 hours of use
Dimensions	145 x 80 x 40 mm	145 x 80 x 40 mm	145 x 80 x 40 mm	145 x 80 x 40 mm
Weight	220 g (with battery)	220 g (with battery)	220 g (with battery)	220 g (with battery)

Accessories

- M10031B 1413 $\mu\text{S}/\text{cm}$ calibration solution, 20 mL (25 pcs)
- M10032B 1382 ppm (mg/L) calibration solution, 20 mL (25 pcs)
- M10038B 6.44 ppt (g/l) calibration solution, 20 mL (25 pcs)
- MA811D/1 EC/TDS probe with DIN connector and 1 m cable

- MA812D/1 EC/TDS probe with DIN connector and 1 m cable
- MA950 Portable meter wall fixing kit
- MA9060 12880 $\mu\text{S}/\text{cm}$ calibration solution, 230 mL bottle
- MA9061 1413 $\mu\text{S}/\text{cm}$ calibration solution, 230 mL bottle
- MA9062 1382 ppm TDS solution, 230 mL bottle



Ordering Information

SM301 is supplied complete with MA811D/1 EC probe, 20 mL 1413 $\mu\text{S}/\text{cm}$ sachet of calibration solution, screwdriver for calibration, 9V battery and instructions.

SM302 is supplied complete with MA812D/1 EC probe, 20 mL 1413 $\mu\text{S}/\text{cm}$ sachet of calibration solution, screwdriver for calibration, 9V battery and instructions.

SM401 is supplied complete with MA811D/1 EC probe, 20 mL 1382 ppm sachet of calibration solution, screwdriver for calibration, 9V battery and instructions.

SM402 is supplied complete with MA812D/1 EC probe, 20 mL 6.44 ppt sachet of calibration solution, screwdriver for calibration, 9V battery and instructions.