

# SMS310/SMS410/SMS315/SMS415

## Conductivity and TDS Monitors

Reliable Conductivity and TDS monitors with Automatic temperature compensation and 1 point manual calibration powered by a 12 VDC adapter. They are ideal for the hydroponic market and allow you to continuously monitor EC or TDS values directly in your reservoir.

Other features include: user selectable set point, visual LED alarm when values go below the set point (for SMS310 and SMS410).

The CAL test feature on the SMS315 and SMS415 will warn the user (through an LED) when the probe needs to be calibrated again!

The monitors are very simple to operate:

1. hang your monitor above your reservoir
2. connect the adapter to the meter and plug in the power supply (make sure that your power supply is in a safe area from the water!)
3. immerse 2/3 of the probe in the solution
4. the probe can now remain there permanently.



| Specifications           | <br><b>SMS310</b> | <br><b>SMS410</b> | <br><b>SMS315</b> | <br><b>SMS415</b> |
|--------------------------|--|--|--|--|
| Range                    | 0.0 to 10.0 mS/cm  | 0 to 1990 ppm  | 0.00 to 9.99 mS/cm   | 0 to 1990 mg/L (ppm)   |
| Resolution               | 0.1 mS/cm  | 10 ppm   | 0.01 mS/cm   | 10 mg/L (ppm)  |
| Accuracy (@25°)          | ±2% Full Scale   | ±2% Full Scale   | ±2% Full Scale   | ±2% Full Scale   |
| Conversion Factor        |  | 0.7  |  | approx. 0.7  |
| Set point                | 1.5 to 3.5 mS/cm   | 700 to 1900 ppm  |  |  |
| Alarm                    | active when the measure is lower than the set point  | active when the measure is lower than the set point  |  |  |
| Temperature Compensation | 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%  |
| Probe                    | MA811/2 (included)   | MA812/2 (included)   | MA815/2 (included)   | MA816/2 (included)   |
| Power Supply             | 12 VDC power adapter (included)  | 12 VDC power adapter (included)  | 12 VDC power adapter (included)  | 12 VDC power adapter (included)  |
| Dimensions               | 165 x 80 x 40 mm   | 165 x 80 x 40 mm   | 85 x 104 x 39 mm   | 85 x 104 x 39 mm   |
| Weight                   | 220 g (meter only)   | 220 g (meter only)   | 130 g (meter only)   | 130 g (meter only)   |

### Accessories

|          |  |          |   |
|----------|--|----------|---|
| M10031B  | 1413 μS/cm calibration solution, 20 mL sachet (25 pcs) | M100040B | Cal-Test solution for SMS415, 20 mL sachet (25 pcs) |
| M10032B  | 1382 ppm calibration solution, 20 mL sachet (25 pcs)   | MA811/2  | Conductivity probe with 2 m cable                   |
| M10039B  | 5.00 mS/cm calibration solution, 20 mL sachet (25 pcs) | MA812/2  | Conductivity probe with 2 m cable                   |
| M10442B  | 1500 ppm calibration solution, 20 mL sachet (25 pcs)   | MA815/2  | Conductivity probe for SMS315 with 2 m cable        |
| M100020B | Cal-Test solution for SMS315, 20 mL sachet (25 pcs)    | MA816/2  | Conductivity probe for SMS415 with 2 m cable        |



### Ordering Information

SMS310 is supplied complete with 12VDC adapter, MA811/2 EC probe, 20 mL 1413 μS/cm sachet of calibration solution, screwdriver for calibration and instruction. SMS410 is supplied complete with 12VDC adapter, MA812/2 TDS probe, 20 mL 1382 ppm sachet of calibration solution, screwdriver for calibration and instruction. SMS315 is supplied complete with 12VDC adapter, MA815/2 EC probe, 20 mL 1413 μS/cm sachet of calibration solution, 20 mL conductivity Cal-Test Solution, screwdriver for calibration and instruction. SMS415 is supplied complete with 12VDC adapter, MA816/2 TDS probe, 20 mL 1382 ppm sachet of calibration solution, 20 mL conductivity Cal-Test Solution, screwdriver for calibration and instruction.