

# SMS110/SMS115/SMS120 pH Monitors






The Smart pH monitor allows you to continuously monitor pH values directly in your reservoir. Features include: user selectable set point (for SMS110 and SMS120), visual LED alarm when values go above the set point and manual calibration.

The **SMS115** with the Cal-test button will warn the user when the electrode needs to be calibrated again. Each monitor is powered by a 12 VDC adapter and is ideal for applications such as Hydroponic and Aquarium.

- The pH monitors are very simple to operate:
1. hang your monitor above the 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 away from the water);
  3. immerse 2/3 of the electrode in the solution;
  4. the probe can now remain there permanently.

The **SMS110** and the **SMS120** are supplied complete with a MA911B/2 pH electrode, the SMS115 with MA912B/2 pH electrode.

Each monitor comes complete with a 12 VDC adapter and calibration solution.

| Specifications   |    |  |  |  |
|------------------|----|---|--|---|
|                  |    | SMS110  | SMS115   | SMS120  |
| Range            | pH | 0.0 to 14.0 pH  | 0.0 to 14.0 pH   | 0.0 to 14.0 pH  |
| Resolution       | pH | 0.1 pH  | 0.1 pH   | 0.1 pH  |
| Accuracy (@25°C) | pH | ±0.2 pH   | ±0.2 pH  | ±0.2 pH   |
| Calibration      |    | manual, 2 point, through trimmers on the meter front and rear panels                | manual, 2-point, through trimmers on the meter side                                  | manual, 2 point, through trimmers on the meter front and rear panels                  |
| Set point        |    | 3.5 to 7.5 pH   |  | 5.5 to 9.5 pH   |
| Alarm            |    | active when measure is higher than selected set point                               |  | active when measure is higher than selected set point                                 |
| pH Electrode     |    | MA911B/2 (included)   | MA912B/2 with BNC connector (included)   | MA911B/2 (included)   |
| Environment      |    | 0 to 50°C / 32 to 122°F; max RH 95%   | 0 to 50°C / 32 to 122°F; max RH 95%  | 0 to 50°C / 32 to 122°F; max RH 95%   |
| Power Supply     |    | 12 VDC power adapter (included)   | 12 VDC power adapter (included)  | 12 VDC power adapter (included)   |
| Dimensions       |    | 160 x 80 x 40 mm  | 85 x 104 x 39 mm   | 160 x 80 x 40 mm  |
| Weight           |    | 220 g (meter only)  | 130 g (meter only)   | 220 g (meter only)  |

## Accessories

- M10004B** pH 4.01 buffer solution, 20 mL sachet (25 pcs)
- M10007B** pH 7.01 buffer solution, 20 mL sachet (25 pcs)
- M10010B** pH 10.01 buffer solution, 20 mL sachet (25 pcs)
- M100058B** Cal-test solution for SMS115, 20 mL sachet (25 pcs)
- M10016B** Electrode cleaning solution, 20 mL sachet (25 pcs)
- MA9015** Electrode storage solution, 20 mL sachet (25 pcs)
- MA9016** Electrode cleaning solution, 20 mL sachet (25 pcs)



- MA911B/2** Double junction, gel filled pH electrode with 2 m cable (will be replaced by **SE230**)
- SE230/2(\*)** pH electrode with BNC connector and 2 m cable
- MA912B/2** pH electrode with BNC connector with 2 m cable (will be replaced by **SE250**)
- SE250(\*)** pH electrode with BNC connector with 2 m cable

(\*) Available from the 1<sup>st</sup> of September 2010

## Ordering Information

**SMS110** is supplied complete with a 12VDC adapter, MA911B/2 pH electrode, 20 mL pH 7.01 sachet of calibration solution, calibration screwdriver and instructions.

**SMS120** is supplied complete with a 12VDC adapter, MA911B/2 pH electrode, 20 mL pH 7.01 sachet of calibration solution, calibration screwdriver and instructions.

**SMS115** is supplied complete with a 12VDC adapter, MA912B/2 pH electrode, 20 mL pH 4.01 and 7.01 sachets of calibration solution, 2x20 mL electrode cleaning solution sachets, 2x20 mL pH Cal-Test Solution, calibration screwdriver and instructions.