



# MW100 PRO/MW101 PRO/MW102 PRO+/MW500 PRO

## Budget pH/ORP/Temperature Portable Meters for fast and reliable results

**MW100 PRO, MW101 PRO, MW102 PRO+ and MW500 PRO** are compact microprocessor-based pH, ORP and Temperature Portable Meters. These handy and ergonomically designed portable meters are ideal for anyone working on a low budget and still requires fast and reliable measurements.

These portable meters are suitable for a wide range of applications, such as Educational, Agriculture and Horticulture, as well as water and environmental analysis. These easy and fast to calibrate portable meters have a small, ergonomic and light case design. Other features include large and easy to read LCD and long battery life.

All meters are supplied with pH or ORP electrodes and calibration solutions in a carton box.

- **MW100 PRO** performs pH measurements with a 0.1 pH resolution.
- **MW101 PRO** performs pH measurements with a 0.01 pH resolution and with manual temperature compensation.
- **MW102 PRO+** is a microprocessor based pH/Temperature meter with extended range (-2.00 to 16.00 pH), Automatic Temperature Compensation, automatic calibration in 2 points and  $\pm 0.02$  pH accuracy.
- **MW500 PRO** performs ORP measurements with a range of  $\pm 1000$  mV.

| Specifications           |              | <br><b>MW100 PRO pH Meter</b> | <br><b>MW101 PRO pH Meter</b> | <br><b>MW102 PRO+ pH/Temp Meter</b> | <br><b>MW500 PRO ORP Meter</b> |
|--------------------------|--------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Range                    | pH/ORP Temp. | 0.0 to 14.0 pH                                                                                                   | 0.00 to 14.00 pH                                                                                                 | -2.00 to 16.00 pH<br>-5 to 70°C                                                                                          | $\pm 1000$ mV                                                                                                       |
| Resolution               | pH/ORP Temp. | 0.1 pH                                                                                                           | 0.01 pH                                                                                                          | 0.01 pH<br>0.1°C                                                                                                         | 1 mV                                                                                                                |
| Accuracy (@25°C)         | pH/ORP Temp. | $\pm 0.2$ pH                                                                                                     | $\pm 0.02$ pH                                                                                                    | $\pm 0.02$ pH<br>$\pm 0.5^\circ\text{C}$                                                                                 | $\pm 5$ mV                                                                                                          |
| Typical EMC Deviation    | pH Temp.     |                                                                                                                  |                                                                                                                  | $\pm 0.02$ pH<br>$\pm 0.5^\circ\text{C}$                                                                                 |                                                                                                                     |
| Temperature Compensation |              | N.A.                                                                                                             | manual, 0 to 50°C                                                                                                | automatic, 0 to 70°C                                                                                                     |                                                                                                                     |
| Calibration              |              | manual, 2-point through offset and slope trimmers                                                                | manual, 2-point through offset and slope trimmers                                                                | automatic at 1 or 2 points with memorized buffers (pH 4.01, 7.01, 10.01)                                                 |                                                                                                                     |
| pH Electrode             |              | SE220 (included)                                                                                                 | SE220 (included)                                                                                                 | SE220 (included)                                                                                                         |                                                                                                                     |
| ORP Electrode            |              |                                                                                                                  |                                                                                                                  |                                                                                                                          | SE300 (included)                                                                                                    |
| Temperature Probe        |              |                                                                                                                  |                                                                                                                  | MA830R (included)                                                                                                        |                                                                                                                     |
| 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 after 8 minutes of non-use                                                                      | approx. 300 hours of use                                                                                            |
| Auto-off                 |              |                                                                                                                  |                                                                                                                  |                                                                                                                          |                                                                                                                     |
| Packaging dimensions     |              | 212 x 145 x 67 mm                                                                                                | 212 x 145 x 67 mm                                                                                                | 212 x 145 x 67 mm                                                                                                        | 212 x 145 x 67 mm                                                                                                   |
| Packaging weight         |              | 440 g                                                                                                            | 420 g                                                                                                            | 500 g                                                                                                                    | 400 g                                                                                                               |

### 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)  
**MA9004** pH 4.01 buffer solution, 230 mL bottle  
**MA9007** pH 7.01 buffer solution, 230 mL bottle

- MA9010** pH 10.01 buffer solution, 230 mL  
**MA9015** Electrode storage solution, 230 mL  
**MA9016** Electrode cleaning solution, 230 mL  
**MA830R** Temperature probe  
**MA9020** 200-275 mV ORP solution, 230 mL  
**SE220** pH electrode with BNC connector and 1 m cable  
**SE300** Platinum ORP electrode with 1 m cable



### Ordering Information

**MW100 PRO** and **MW101 PRO** are supplied complete with a SE220 pH electrode, pH 7.01 20 mL sachet of calibration solution, calibration screwdriver, 9V battery and instructions.

**MW102 PRO+** is supplied complete with a SE220 pH electrode, MA830R stainless steel temperature probe, pH 4.01 and pH 7.01 20 mL sachet of calibration solution, 9V battery and instructions.

**MW500 PRO** is supplied complete with a SE300 platinum electrode, 9V battery and instructions.