

SM100/SM101/SM102/SM500

Portable pH/ORP/Temp Meters

- ATC
- MTC
- Points 2
- Self diagnostics
- CE







Smart portable meters with no frills!

Milwaukee's low cost durable meters for quick and reliable measurements.

Milwaukee's Smart meters are manufactured to be easy to use, practical and accurate. Ideal for the classroom, laboratory or for general field use.

- **SM100** performs pH measurements with a 0.1 pH resolution and with manual temperature compensation.
- **SM101** performs pH measurements with a 0.01 pH resolution and with manual temperature compensation.
- **SM102** 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 ± 0.02 pH accuracy.
- **SM500** performs ORP measurements with a range of ± 1000 mV.

All meters are supplied with pH or ORP electrodes and calibration solutions.

Specifications		 SM100 pH Meter	 SM101 pH Meter	 SM102 pH/Temp Meter	 SM500 ORP Meter
Range	pH/ORP Temp	0.0 to 14.0 pH	0.00 to 14.00 pH	-2.00 to 16.00 pH -5 to 70°C	± 1000 mV
Resolution	pH/ORP Temp	0.1 pH	0.01 pH	0.01 pH 0.1°C	1 mV
Accuracy (@25°C)	pH/ORP Temp	± 0.2 pH	± 0.02 pH	± 0.02 pH $\pm 0.5^\circ\text{C}$	± 5 mV
Typical EMC Deviation	pH Temp			± 0.02 pH $\pm 0.5^\circ\text{C}$	
Temperature Compensation		manual, 0 to 50°C	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	
pH Electrode		MA911B/1 (included)	MA911B/1 (included)	MA911B/1 (included)	
ORP Electrode					MA921B/1 (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	approx. 300 hours of use
Auto-off				after 8 minutes of non-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

- 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 bottle
- MA9015 Electrode storage solution, 230 mL



- MA9016 Electrode cleaning solution, 230 mL
- M10000B Electrode rinse solution, 20 mL sachet (25 pcs)
- MA911B/1 pH electrode with BNC connector and 1 m cable
- MA9020 200-275 mV ORP solution, 230 mL bottle
- MA921B/1 Platinum ORP electrode with 1 m cable
- MA950 Portable meter wall fixing kit
- MA830R Temperature probe

Ordering Information

SM100 and SM101 are supplied complete with a MA911B/1 pH electrode, pH 7.01 20 mL sachet of calibration solution, calibration screwdriver, 9V battery and instructions.

SM102 is supplied complete with a MA911B/1 pH electrode, MA830R stainless steel temperature probe, pH 4.01 and pH 7.01 20 mL sachet of calibration solution, 9V battery and instructions.

SM500 is supplied complete with a MA921B/1 platinum electrode, 9V battery and instructions.