

SPECIFICATIONS:



SM500

RANGE	±1000 mV
RESOLUTION	1 mV
ACCURACY (@25°C)	±5 mV
ORP ELECTRODE	MA921B/1 (included)
ENVIRONMENT	0 to 50°C, 95% RH max.
BATTERY TYPE	9V alkaline (included)
BATTERY LIFE	approximately 300 hours of use
DIMENSIONS	145 x 80 x 40 mm
WEIGHT	220 g (with battery) meter only

OPTIONAL ACCESSORIES:

M10000B	Electrode rinse solution, 20 ml sachet (25 pcs)
MA9015	Electrode storage solution, 220 ml bottle
MA9020	200-275 mV ORP solution, 220 ml bottle
MA921B/1	Platinum ORP electrode with 1 m cable

WARRANTY:

This instrument is warranted from all defects in materials and manufacturing for a period of two years from the date of purchase. The electrode is warranted for a period of 6 months. If during this period, the repair or replacement of parts is required, where the damage is not due to negligence or erroneous operation by the user, please return the parts to either dealer or our office and the repair will be effected free of charge.

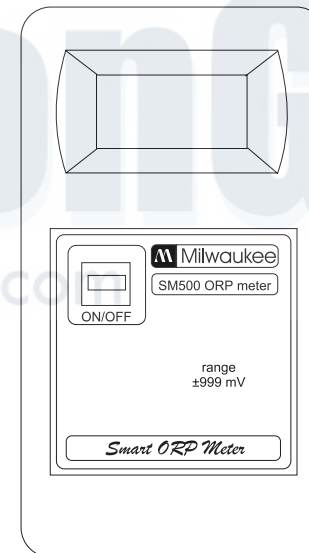
Note: We reserve the right to modify the design, construction and appearance of our products without advance notice.



USER MANUAL

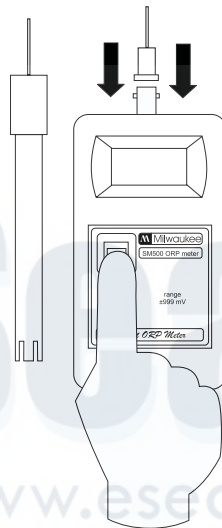
**PORTABLE
ORP METER
MODEL: SM500**

Smart ORP Meter



OPERATION:

- The meter is supplied complete with a 9V battery. Slide off the battery compartment cover on the back of the meter. Install the battery while paying attention to its polarity.
- Always remove the electrode protective cap before taking any measurement. If the electrode has been left dry, soak the tip in storage solution for a few minutes to reactivate it.
- Connect the ORP electrode to the BNC socket on the top of the meter.
- Immerse the tip (2.5 cm) of the ORP electrode into the sample.
- Turn the instrument on by pressing the ON/OFF key.
- Allow the reading to stabilize before taking measurements.
- After use, switch the meter off and store the electrode with a few drops of storage solution in the protective cap.
- The meter is factory calibrated. ORP electrodes are inter-changeable and no mV calibration is needed when they are replaced.



MAINTENANCE:

- To correctly perform a redox measurement, the surface of the ORP electrode must always be clean. Use for this purpose the M10000B rinse solution. If needed, brush the Platinum tip with very fine abrasive paper.
- When not in use, the tip of the electrode should always be kept moist and safe from any mechanical stress.

BATTERY REPLACEMENT:

When the battery becomes weak the meter will display "S". When the low battery indicator appears, the battery has only about 50 hours of working time left. A low battery will result in unreliable measurements. It is recommended to replace the battery immediately.

Battery replacement must only take place in a non hazardous area using an alkaline 9V battery.

Turn the meter off, slide off the battery compartment cover at the rear of the meter and replace the 9V battery with a new one. Make sure the battery contacts are tight and secure, seat the battery in its compartment and insert the cover again.

