

SPECIFICATIONS:



SM100

RANGE	0.0 to 14.0 pH
RESOLUTION	0.1 pH
ACCURACY (@25°C)	±0.2 pH
pH ELECTRODE	MA911B/1 (included)
ENVIRONMENT	0 to 50°C, 95% RH max.
BATTERY TYPE	1 x 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:

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)
M10000B	Electrode rinse solution, 20 ml sachet (25 pcs)
MA9015	Electrode storage solution, 220 ml bottle
MA911B/1	pH-electrode with BNC connector and 1 m cable
MA950	Portable meter wall fixing kit

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.

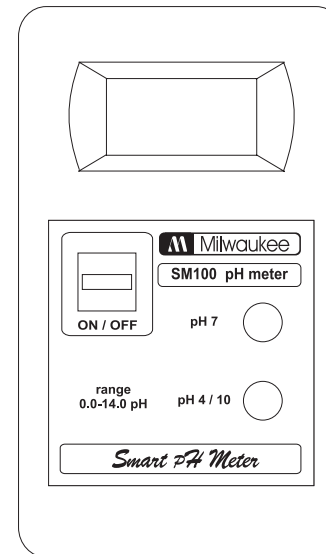
ISMIL100 11/01



USER MANUAL

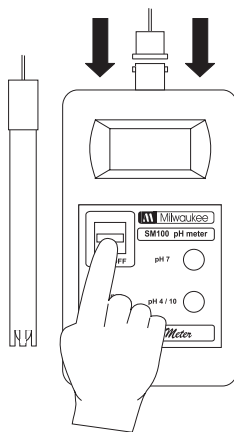
**PORTABLE
pH METER
MODEL: SM100**

Smart pH Meter



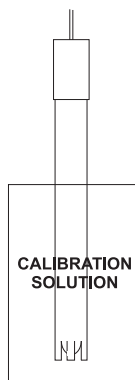
OPERATION:

- 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 (bottom 2.5 cm) in rinse solution (M10000B) for a few minutes to reactivate it.
- Connect the pH electrode to the BNC socket on the top of the meter.
- Make sure that the meter has been calibrated before taking any measurements (see Calibration Procedure)
- Immerse the tip (2.5 cm) of the pH electrode into the sample.
- Turn the instrument on by pressing the ON/OFF key.
- Allow the reading to stabilize before taking measurements.
- After measurements, switch the meter off and store the electrode with a few drops of storage solution in the protective cap.



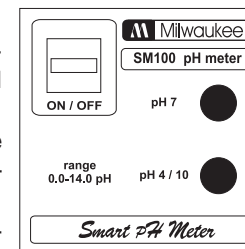
CALIBRATION PROCEDURE:

- Remove the protective cap from the electrode.
- Immerse the electrode tip into a new sachet of pH7 calibration solution and allow the reading to stabilize.
- Adjust the pH7 (OFFSET) calibration knob to



display "7.0 pH".

- Open a new sachet of pH4 calibration solution and use a small quantity to rinse the electrode.
- Immerse the electrode tip inside the pH4 sachet and allow the reading to stabilize.
- Adjust the pH4/pH10 (SLOPE) calibration knob to read "4.0 pH".
- The calibration is now complete and the meter is ready to take measurements.
- It is suggested to recalibrate the meter at least once a month, after a prolonged stocking time and after electrode replacement.



BATTERY REPLACEMENT:

When the battery becomes weak the meter will display "V".

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 immediately the battery.

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.

