

POOL LAB[®]

PL103 - AUTOMATIC TEMPERATURE COMPENSATED SALT METER

OPERATING INSTRUCTIONS

FOR MEASURING SALT LEVEL IN POOL AND SPA WATER

MEASUREMENT RANGE: 0 - 10,000 ppm



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USAGE:

Immerse sensor probes in water to be tested. Alternatively you can also hold the meter with the sensor probes pointing upwards, and place your finger over the air bleed hole. Then fill the sensor cup with the water to be tested.

Press **MODE** button once to activate the meter.

There are three view modes, press **MODE** to cycle between them:

- 1- Temperature Compensated Salt Level in parts per million (ppm) - *Initial Display*.
- 2- Temperature degrees celcius
- 3- Temperature degrees fahrenheit
- 4- Salt Level in parts per million (ppm) - no temperature compensation

*For increased accuracy allow some time for the sensors to stabilise to the water temperature. Press **MODE** button to cycle through the views to the temperature readings.*

Pressing the **HOLD** button once will hold the current reading for 10 seconds.

The meter will power off automatically 15 seconds after no buttons have been pressed.

CALIBRATION:

The meter is factory calibrated, but over time the reading can drift. To check the calibration, or to re-calibrate the meter requires a calibrating solution of 3000 ppm sodium chloride. This can be purchased separately, or if you have access to accurate scales you make it yourself by measuring exactly 3.0 grams of (non-iodised) table salt and dissolving into exactly 1 litre of distilled water.

Immerse the sensor probes in the calibrating solution and allow at least 2 minutes for the temperature sensor to stabilise. Press the **MODE** button once to turn on the meter and measure the salt level of the calibrating solution. Ensure the meter is held at least 2cm from the bottom of the container whilst taking reading. If the reading is close enough to 3000 ppm then calibration is not required. Anywhere between 2700 and 3300 is generally acceptable, ie. +/- 10%.

If the meter requires calibration, press and hold both the **MODE** and **HOLD** buttons together for approximately 3 seconds or until "CAL" is shown on the display. Release the buttons to show the raw (uncalibrated) reading. Ensure the probes are fully immersed in the calibration solution and the meter is at least 2cm away from the bottom of the container, then press **MODE** to set the calibration. Assuming the uncalibrated reading was within range, the meter should now show 3000 ppm. Press **MODE** button once more to save this and reset the meter. Test the salt level reading of the calibration solution to confirm the calibration was successful.

CAUTION:

- DO NOT STORE IN DIRECT SUNLIGHT. DO NOT LEAVE ON THE DASHBOARD OF A VEHICLE.
- AVOID IMMERSING ENTIRE METER IN WATER.
- FACTORY FITTED WITH LITHIUM BATTERIES AND SEALED.
- BATTERIES ARE NOT REPLACEABLE.
- DO NOT USE IN WATER ABOVE 50°C (120°F)