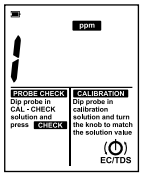
HI 9813-6 pH/EC/TDS/°C meter with Clean & Cal procedure Quick Reference Guide

TAKING MEASUREMENTS

- Connect the **HI 1285-6** probe and switch the meter ON.
- Submerge the probe into the sample to be tested.
- Select the desired measurement range (pH, mS/cm, ppm, °C) by pressing the correspondent key.



Note: If the display shows only a "**1**", the meter is out of range.

- Wait for a couple of minutes for reaching the thermal equilibrium before taking any measurements.
- After use switch off the instrument, clean and cover the probe with the protective cap.

Note: It is recommended to clean often the probe with **HI 700661** Cleaning Solution.

BATTERY REPLACEMENT

When the battery level is so low that it may cause unreliable measurements, the meter turns off.
It is recommended to replace the battery immediately.
Unscrew the three screws on the rear of the meter, remove the battery compartment cover and replace the 9V alkaline battery with a new one while observing its polarity.
Make sure the battery contacts are tight and secure before replacing the cover.

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CALIBRATION PROCEDURE

- Connect the probe and switch the meter ON.
- Immerse the probe in the calibration solution.
- **pH calibration**: use **HI 7007** (pH 7.01) buffer if you are going to measure neutral or close to neutral samples, **HI 7004** (pH 4.01) if you are going to measure acidic samples or **HI 7010** (pH 10.01) for alkaline measurements.

Note: If you need to calibrate to NBS standards, use **HI 7006** (pH 6.86) instead of **HI 7007** and **HI 7009** (pH 9.18) instead of **HI 7010**.

- **EC or TDS calibration**: use **HI 70031** (1.41 mS/cm) EC calibration solution or **HI 70442** (1500 ppm) TDS calibration solution.

Note: The conversion between EC and TDS is made by a built-in circuit, hence it is requested to calibrate the meter only in EC or TDS range. The other range is thus automatically calibrated.

- Press **°C** and record the temperature of the calibration solution.
- Adjust the pH or the EC/TDS knob to display the solution value at the measured temperature (refer to the tables "pH vs. temperature" or "Conductivity vs. temperature" on the solution packet).

CAL-CHECK™ FEATURE / CLEAN & CAL PROCEDURE

- Rinse the probe with water and immerse it in **HI 50021** Check Solution.

Note: If the reading is around pH 4.0, the probe is broken and has to be replaced.

- Press the **Check** key: if the message "**Probe is OK**" appears, the meter is calibrated; if the message "**Clean Probe and Calibrate**" appears, cleaning is needed:
  1. immerse the probe in **HI 700661** Cleaning Solution for 5 minutes, then rinse it with tap water;
  2. immerse again in **HI 50021** Check Solution and press the **Check** key: if the message "**Probe is OK**" appears, the meter does not need calibration; if the message "**Clean Probe and Calibrate**" appears, calibration is needed.

Note: If it is not possible to calibrate, the probe has to be replaced with a new one.