HI 991300

pH/EC/TDS/temperature meter **Quick Reference Guide**

MEASUREMENTS

•	Range:	pН	0.
		F.C.	•

- 0.00 to 14.00 pH 0 to 3999 µS/cm EC 0 to 2000 ppm (mg/l) TDS Temperature 0.0 to 60.0°C/32.0 to 140.0°F
- ٠ Accuracy:

 $\pm 0.01 \text{ pH}$ (@20°C/68°F) $\pm 2\%$ F.S. (EC / TDS) $\pm 0.5^{\circ}C/\pm 1^{\circ}F$

OPERATIONAL GUIDE

- To switch ON and OFF: press ON/OFF/MODE
- . To freeze the display: press SET/HOLD until "HOLD" appears.
- . To take measurements: connect the probe when the meter is off, remove the protective cap, turn the meter ON, immerse the probe tip in the sample, stir briefly and wait until the "Not Stable" tag is turned off.
- To enter the Calibration mode: first select the measurement range, ٠ press the SET/HOLD button to select pH, EC or TDS; then press ON/OFF/MODE until "CAL" appears. Release the button.
- To select °C or °F unit: press ON/OFF/MODE until "TEMP" appears, ٠ then select the temperature unit with SET/HOLD. Press ON/OFF/MODE twice to return to normal mode.
- To change the calibration buffer set: in pH mode; press ON/OFF/MODE • until "TEMP" appears. Press again ON/OFF/MODE: the message "pH 7.01 BUFF" (or "pH 6.86 BUFF") appears. Change the buffer set with SET/HOLD. Press ON/OFF/MODE to return to normal mode.
- To change the EC/TDS conversion factor (CONV) and the temperature • compensation coefficient (BETA): in EC or TDS mode; press ON/OFF/MODE until "TEMP" appears, press again ON/OFF/MODE: the message eg."0.50 CONV" appears. Press again SET/HOLD to change the value. Press ON/OFF/MODE button to show eg."2.1 BETA", press SET/HOLD to change the value. Press ON/OFF/MODE to return to normal mode.



CALIBRATION PROCEDURES

Calibration messages:

- USE : default suggested buffer or standard.
- **REC** : a valid buffer or standard is recognized.

• WRNG : invalid buffer or standard detected.

Two-point pH calibration procedure:

- Place the probe in pH 7.01 (or 6.86) buffer.
- After the first point is accepted, the "pH 4.01 USE" message appears.
- Place the probe in pH 4.01, 10.01 (or 9.18) buffer.
- When the second point is accepted, the "OK 2" message appears and then the meter returns to normal mode.

Single-point pH calibration procedure:

- With pH 4.01, 9.18 or 10.01 buffer: when the calibration point is accepted, the buffer value and "OK 1" message appear and then the meter returns to normal mode.
- With pH 7.01 or 6.86 buffer: after the calibration point has been accepted, the ON/OFF/MODE button must be pressed to return to normal mode.

EC calibration:

- Immerse the probe in the HI 7031 (1413 $\mu\text{S/cm}$) calibration solution.
- When the calibration point is accepted the "OK" message appears and the meter returns to normal mode.

NOTES

- Since there is a known relationship between the EC and TDS reading, it is not necessary to calibrate the meter in TDS.
- If the probe is dry, soak it in HI 70300 Storage Solution for half an hour.
- To clean the meter: use water.
- To quit calibration (ESC): press ON/OFF/MODE after entering the calibration mode and before the first point is accepted.
- To dear calibration (CLR): press SET/HOLD after entering the calibration mode and before the first point is accepted.
- When the battery symbol appears, the batteries should be replaced soon.
- Open the battery compartment cap on the bottom of the instrument and replace old batteries with new ones, following the instructions on the rear of the instrument.

QR991300Y 01/10