Quick Reference Guide

HI98193
Dissolved Oxygen
BOD/OUR/SOUR Meter

SPECIFICATIONS

•	**RANGE**	0.00 to 50.00 mg/L 0.0 to 600.0 % saturation 450 to 850 mmHg -20.0 to 120.0 °C (-4.0 to 248.0 °F)
•	**ACCURACY** **@ 25 °C / 77 °F**	±1.5 % of reading ±1 digit ±3 mmHg within ±15 % from the calibration point ±0.2 °C ± 0.4 °F) (excluding probe error)

OPERATIONAL GUIDE

- **To switch ON or OFF:** press **ON/OFF** (⏻)
- **To select the DO, BOD, OUR or SOUR range:** press **RANGE**.
- **To read contextual help:** press **HELP**.
- **To return to the previous screen:** press **ESC**.

Probe conditioning

- Remove the protective cap.
- Moist the sensor for 5 minutes by soaking it in electrolyte solution (HI7041S).
- Rinse the membrane cap with electrolyte solution while shaking it gently.
- Refill with clean electrolyte solution.
- Tap the probe repeatedly to remove any air bubbles that may be trapped inside.
- With the sensor facing down, slowly screw the cap clockwise and wait 15 minutes before proceeding.

D.O. measurements

- To take D.O. measurements: with meter off, connect the electrode's DIN connector to appropriate socket and immerse the electrode in the solution. Switch ON the meter. Stir briefly and wait for a stable reading. For accurate readings make sure you have a calibrated meter and a conditioned probe.
- **To select the unit, D.O. (mg/L) or D.O. (%):** press **MODE**.
- **To enter/exit Calibration mode:** press **CAL**.
- **Temperature compensation:** the included D.O. probe has a built-in temperature sensor allowing automatic temperature compensation (0.0 °C to 50.0 °C).

D.O. CALIBRATION PROCEDURE

Up to two point automatic calibration or 1 point manual calibration are available.

From calibration screen select DO.

- Place the probe in zero oxygen solution (HI7040).
- Wait for "CFM". Press **CFM** to accept the calibration.
- For one-point calibration in 0.0 % press **ESC** after the appropriate accepted solution. The meter returns to measurement mode.
- For 100.0% calibration dry the probe and take measurements in the air.

- Wait for **"CFM"**. Press **CFM** to accept the calibration. The meter returns to measurement mode.

  Note: For one-point calibration in 100.0 % start calibration with 100.0 % point. The meter returns to measurement mode.

PRESSURE CALIBRATION PROCEDURE

From calibration screen select: Pressure.

- Use ▲/▼ keys to enter the real local barometric pressure from a reference barometer.
- Wait for **"CFM"**. Press **CFM** to accept calibration. The meter returns to measurement mode.

TEMPERATURE CALIBRATION

From calibration screen select T.

- Place the DO probe into a vessel at 0 °C.
- Use ▲/▼ keys and set the calibration point at the temperature read from the reference thermometer.
- Wait for **"CFM"**. Press **CFM** to accept the calibration.
- For one point calibration press **ESC**.
- Place the DO probe into a vessel at 50 °C and proceed as in one point calibration.

SETUP MODE

- To enter/exit SETUP view mode, press **SETUP** while in measurement mode.
- To toggle between the displayed parameters, press the ▲/▼ keys.
- To enter/exit SETUP changing mode: press **Modify** or simply select option.

LOG MODE

- To store the current reading into the memory: press **LOG** while in measurement mode.
- To view logged data: press **RCL** while in measurement mode.
- To view more details: press **More**.
- To delete records: press **Delete** key.
- To delete all records: press **Delete All**.

AutoEnd MODE

- To freeze the first stable reading on the LCD: press **AutoEnd** while in measurement mode; the "WAIT" tag will blink until the reading will stabilize, then "Hold" will be displayed.
- To return to the measurement mode: press **Continue**.