Quick Reference Guide

HI5421

DO/BOD/OUR/SOUR/Temperature Bench Meter

SPECIFICATIONS

 RANGE 	
DO	0.00 to 90.00 ppm (mg/L)
	0.0 to 600.0 % saturation
Temperature	-20.0 to 120.0 °C / -4.0 to 248.0 °F / 253.2 to 393.2 K (Measurement range)
	0.0 to 50.0 °C / 32.0 to 122.0 °F / 237.1 to 323.1 K (DO compensation range)
 ACCURACY 	
DO	± 1.5 % of reading ± 1 least significant digit
Temperature	$\pm 0.2 \text{ °C} / \pm 0.4 \text{ °F} / \pm 0.2 \text{ K}$

OPERATIONAL GUIDE

- Before taking measurements: make sure you have a conditioned probe.
- To switch ON and OFF: use the power switch from the back of the instrument.
- To select the DO, BOD, OUR or SOUR measure mode: press [MODE] while in measure mode and then the
 appropriate virtual key.
- To take the DO measurements: connect the probe connector to the appropriate socket and insert the probe into the sample. Stir briefly and wait for a stable reading. For accurate readings, make sure you have a calibrated meter.
- To enter calibration mode: press CAL while in DO measure mode.
- To delete the old calibration: press Cetar after entering calibration menu.
- To access one of the displaying modes (Basic, GLP, Graph or Log History): press while in measure mode and then the appropriate virtual key.

Note: The measured value is always displayed on the LCD, together with the appropriate information for GLP, Graph and Log History displaying modes.

- To access the zoom graph menu: press strup while in Graph displaying mode and then the appropriate zoom axis virtual key; to zoom the selected axis: press strup of strup in the selected axis.
- To obtain general informations about the selected option/operation: press HELP.

SETUP

 To access one of the SETUP modes (System Setup, DO/BOD/OUR/SOUR Setup): press setup while in measure mode and then the appropriate virtual key.

Note: Each SETUP mode has specific options:

System Setup: Beeper, Saving Confirmation, GLP Data, Date & Time, LCD Setup, Color Palette, Language, Serial Communication, Meter Information, Restore Factory Settings and Software Update.

DO Setup: Profile, Reading Mode, Temperature Unit, Calibration, Measurement Unit, Barometer, Salinity, Sample ID, Stability Criteria, Log and Alarm.

BOD Setup: Profile, Temperature Unit, Measurement Unit, Method Configuration, Barometer, Salinity, Sample ID, Log and Alarm.

OUR Setup: Profile, Temperature Unit, Measurement Unit, Method Configuration, Barometer, Salinity, Sample ID, Log and Alarm.

SOUR Setup: Profile, Temperature, Measurement Unit, Method Configuration, Barometer, Salinity, Sample ID, Log and Alarm.

- To highlight the desired parameter/option: press _____) or _____.
- To access the desired parameter/option or to confirm: press [Select].
- To enter text: use Text Editor menu.

• To exit from current menu: press [Example]. If the Saving Confirmation is enabled and where necessary: press [Yes] to accept the modified value, [No] to escape without saving or [Cancel] to cancel operation.

DO CALIBRATION PROCEDURE

The following options are available for the Dissolved Oxygen calibration:

- automatic calibration in one or two points at 0% saturation and at 100% saturation;
- manual calibration in one point using a standard value set by the user in % saturation, mg/L or ppm.

To calibrate the meter (in DO only):

- For accurate calibration use two beakers for each of the calibration standards.
- Insert and rinse the probe in the first beaker in order to decontaminate it;
- Insert the probe in the second beaker;
- Tap the probe repeatedly;
- Enter in calibration mode by pressing CAL;
- Wait to stabilize;
- You can delete a previously performed calibration by pressing Calibration.

When the automatic standard recognition is selected:

- The calibration point will be automatically selected from the two standards available.
- Press [______] to perform the calibration or [______] to exit calibration. Note: If you want to perform automatic DO calibration in two points, perform the calibration at 0% saturation first and then at 100% saturation.

When the user standard is selected:

- The calibration can be performed only in one point.
- Edit the desired standard value by using \square and \square .
- Press Accept to finish the calibration or Escape to exit calibration.

DO Calibration messages:

- Wrong standard solution: Please check the standard solution.
- Wrong standard temperature: The standard temperature is out of the defined range.
- The current standard was already calibrated: Change the standard solution.

LOGGING

- If Automatic Logging Type has been chosen: press (Start) / (Note that the logging session.
 - If the Reading Mode is set as Direct/AutoHold and was pressed: the logged value is the one that has been frozen on the LCD until returning to normal logging mode by pressing [__________].

 - To save the logged data: press [______] or [_____] to exit without saving.
- If Manual Logging type has been chosen: press while in measure mode to manually log a record.
 - To generate a new lot: access the appropriate measured unit SETUP and select New Lot option.
 - If the Reading Mode is set as Direct/AutoHold and [100 was pressed: the logged value is the one that has been frozen on the LCD.
 - To store another frozen value: press Commons to return to normal logging mode and then Auto again.
- If AutoHold Logging Type has been chosen: press while in measure mode to start/stop the logging session. The logged values are only the ones frozen on the LCD after was pressed.
 - To store another frozen value: press Continuous to return to normal logging mode and then Audo again.
- To enter Log Recall mode: press SETUP while in measure mode then
- To view the desired memorized data: press (Automatic Log) or (Manual Log).
- To delete lots: press SETUP while in Log Recall mode, press MODE to select Over or Note option and then proceed to delete lots.

