

Quick Reference Guide

HI98168 Professional Soil pH Meter

SPECIFICATIONS

- RANGE**
 - 2.0 to 20.0 pH
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 - 20.0 to 120.0 °C (-4.0 to 248.0 °F)
- ACCURACY**
 - ±0.1 pH
 - @ 25 °C / 77 °F ±0.01 pH
 - ±0.002 pH
 - ±0.4 °C (±0.8 °F) (excluding probe error)

OPERATIONAL GUIDE

- To switch **ON** and **OFF**: press **ON/OFF** (⏻).
- To select the range **pH**: press **RANGE**.
- To select the **pH** resolution: press **MODE**.
- To read contextual help: press **HELP**.
- To take **pH** measurements: connect the electrode's DIN connector to the appropriate socket, remove the protective cap and immerse the electrode tip into the sample. Stir briefly and wait for the reading to stabilize. For accurate readings, make sure you have a calibrated meter and a conditioned electrode.
- To **For temperature compensation**:
Automatic - use temperature sensor inside the pH electrode.
- To enter **pH** Calibration mode: press **CAL** while in pH measurement mode.
- To change calibration buffer/standard: press the ▲/▼ keys.
- To clear pH calibration: press **Clear** functional key.

pH CALIBRATION PROCEDURE

- Place the probe in the first buffer.
- Wait for "CFM" blinking. Press **CFM** to accept the calibration point (see Note).
- Follow the above procedure until the fifth calibration point is reached. The meter returns to measurement mode.

Note: For one, two, three or four-point calibration, press CAL after the appropriate accepted buffer. The meter returns to measurement mode.

Working with custom buffers

- To select a custom buffer (see Note): press the ▲/▼ keys while in pH calibration mode until the **Custom** key will be displayed on the LCD.
- To change the custom buffer value in accordance with current temperature: press **Custom** and then the ▲/▼ keys. Press **Accept** to confirm the value.

Note: The custom buffer is supposed to be set in SETUP mode.

Replacing an old calibration point

- To select the old calibration point to be replaced: press the ▲/▼ keys.
- To confirm the old calibration point to be replaced: press **CFM**.
- To leave replace mode: press **CAL**.

pH Calibration messages:

- **Wrong buffer** - the pH reading is far from the selected buffer.
- **Electrode dirty/broken** alternatively with **Buffer Contaminated** the electrode offset is out of acceptable range.
- **Wrong Buffer Temperature**: buffer temperature out of defined range.
- **Wrong Old Slope**: inconsistency between current and old calibration parameter.
- **Clean Electrode**: an abnormal difference between new and previous calibration detected.
- **Outside Cal Range**: out of calibration range.

SETUP MODE

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

GLP MODE

- To enter/exit GLP mode: press **GLP** while in measurement mode.

LOG MODE

- To store the current reading in 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 measurement mode: press **Continue**.