QUICK REFERENCE GUIDE

HI98194 Portable pH / EC / Dissolved Oxygen Meter

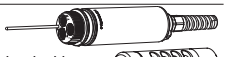
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Please scan the **QR code** or use the link below to download the user manual.
https://manuals.hannainst.com/HI98194

Package Contents

Each HI98194 is delivered in a rugged carrying case and supplied with:

- HI7698194 Multisensor probe
- HI7698295 Short protective probe shield



- HI7698194-1 pH/ORP sensor



- HI7698194-2 Dissolved Oxygen sensor



- HI7698194-3 Conductivity sensor



- HI76981942 Probe maintenance kit
- HI7698290 Calibration beaker
- HI9828-20 Quick calibration standard solution (230 mL)

- HI920015 Micro USB cable
- 1.5V AA alkaline battery (4 pieces)

- Instrument and probe quality certificates
- Quick reference guide

Key Features

- Field-replaceable sensors with automatic recognition
- Tutorial mode for sensor operation and calibration
- PC connectivity

Hanna Instruments is committed to developing and deploying digital solutions with a positive impact on the environment and climate.

All Hanna instruments conform to the CE European Directives and our production facilities are ISO 9001 certified. HI98194 is warranted for a period of two years (probe and sensors six months) against defects in workmanship and materials when used for their intended purpose and maintained according to instructions.

Please retain for future use. QR98194 11/25

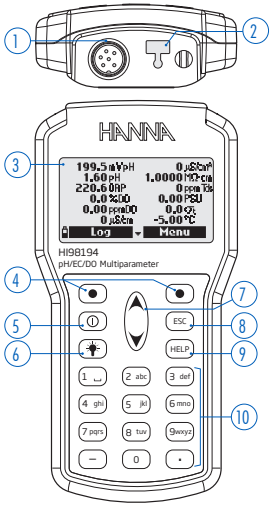
General Description

HI98194 is a portable multiparameter system that monitors up to **14 water-quality parameters** using the HI7698194 digital probe.

The probe has three sensor sockets marked with color-coded triangles:

- connector 1 › HI7698194-0 pH or HI7698194-1 pH/ORP sensor
- connector 2 › HI7698194-2 Dissolved Oxygen sensor
- connector 3 › HI7698194-3 Conductivity sensor

Functional & Keypad Description



1. Probe connector
2. USB connector
3. LCD Display
4. Functional keys
   Perform displayed function
5. Power **On/Off** key
6. **Lamp** key
   Turn the backlight on/off
7. Arrow keys
   Navigate menus/options
8. **ESC** key
   Return to previous screen
9. **HELP** key
   Context-sensitive help
10. Alphanumeric keypad

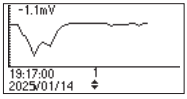
System Overview

Hardware Flexibility

- Up to three sensors can be installed
- Inputs for PC and flash drive

User Interface

- Keys 1 through to 7 support selection of number of parameters to be displayed at one time
- Data graphing



Measurement Flexibility

- Measured data displayed simultaneously for all enabled parameters

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www.hannainst.com

Getting Started

- With the meter off, remove the four screws on the back of the instrument. Insert the four supplied 1.5V AA batteries. Replace the cover.
- Connect the probe to the quick connector. Align the pins and key then push the plug into the socket.
- Before measurement, complete the following steps: probe and sensor preparation, hydration, and calibration.



Probe and Sensor Preparation

Unscrew to remove the protective shield from the probe and set aside.

pH Sensor or **pH/ORP Combination Sensor**

- Remove the sensor protective shield.
- If the bulb and/or junction are dry, soak the electrode in HI70300 Storage solution for at least 30 minutes.
- Rinse the sensor in flowing water then clean by soaking it for 1 minute in HI70670 Cleaning solution for mineral deposits or HI70671 Cleaning and disinfection solution.
- After cleaning, soak the sensor in HI70300 Storage solution for 30 minutes before calibrating.

DO Sensor » The DO sensor is shipped dry.

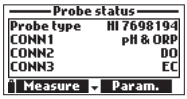
1. Remove the red and black shipping cap.
2. Insert the supplied O-ring into the membrane cap.
3. Rinse the membrane with some electrolyte solution.
4. Fill the cap with fresh electrolyte. Gently tap to dislodge any air bubbles. Do not touch the membrane with your fingers or tap it directly.
5. With the sensor facing downward, screw the membrane cap counterclockwise until it is fully secured. Some electrolyte may overflow.
6. Rinse the sensor with deionized water.
7. Ensure there are no bubbles or debris between the membrane and the sensor body.

EC Sensor » The EC sensor does not need to be hydrated before use.

Use the small brush to clean trapped debris before use.

Reinstall the sensors if they have been removed.

At power on, the probe status screen identifies the probe and attached sensors.



Sensor Reinstallation

- Identify the "Align here ⇨" signage on the sensor body and correct sensor socket.
- Align the sensor such that the directional arrow "⇨" points directly to the designated socket.
  Insert the pH/ORP sensor into the red-coded socket (▽).
  Insert the EC sensor into the blue-coded socket (▽).
  Insert the DO sensor into the white-colored socket (▽).
- Push the sensor(s) in, taking care not to rotate the sensor(s).
- Hand tighten the locking threads.

Note: *Rotating the sensor at this stage might damage the connector pins.*

Hydration

1. Remove the shipping cap from the pH/ORP sensor.
2. Place the probe with sensors under a stream of water to rinse salt crystals from sensors.
3. Fill calibration beaker partially full of tap water.
4. Do not use deionized or distilled water.
5. Screw calibration beaker onto the probe.
6. Support probe in vertical position.
7. Allow the sensors to soak in water for a minimum of 30 minutes (or longer) before attempting calibration.

Calibration

Sensors must be calibrated before taking measurements.

1. Power the meter then press **ESC** key followed by Menu.
2. Select Calibration.
3. Use the on-board Tutorial and/or **Help** key to pilot you through the calibration procedures.

Select Operating Language

1. Power the meter then press **ESC** key to exit Tutorial mode.
2. Go to Menu › System Setup to select the operating language.

Brief Operational Overview

Menu key » access parameter setup, calibration, system setup

Log key » log a single sample, log recall, log notes

Measure key » view measurement screen

Param. key » open parameters menu

Battery Capacity

HI98194 is supplied with four 1.5 V AA alkaline batteries and offers up to 360 hours of operation with backlight disabled and approximately 50 hours with backlight enabled.

The battery level indicator on the LCD indicates the remaining battery life.

Measurement Guidelines

- Operate the probe with the protective shield installed.
- To prevent the pH/ORP sensor from becoming electrically disconnected, do not position the probe horizontally.
- Give the probe a firm shake to dislodge bubbles that may adhere and interfere with the measurements.
- Submerge the probe to ensure the conductivity probe and temperature sensor are in contact with representative sample.
- Avoid surface measurements in direct sunlight.

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