



HI 98100 (Checker Plus®)

Instruction Manual



Hanna Instruments Inc. 584 Park East Drive
Woonsocket, RI 02895
www.hannainst.com



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Thank You!

Thank you for choosing a Hanna Instruments product. Please read this instruction manual carefully before using the instrument. For additional information, visit www.hannainst.com or e-mail us at tech@hannainst.com.

Specifications

Range	0.00 to 14.00 pH
Resolution	0.01 pH
Accuracy	±0.1 pH
Calibration	Automatic, 2 points
Electrode	HI 1271 (included)
Environment	0 to 50 °C (32 to 122 °F); RH 95% max
Battery Type	1 x CR2032 Li ion
Battery Life	approx. 1000 hours of continuous use
Auto Off	OFF, 8 or 60 minutes
Dimensions	50 x 174 x 21 mm (2 x 6.8 x 0.9")
Weight	50 g (1.8 oz.)

Operation

The pH electrode is shipped dry. Before using the Checker Plus®, remove the protective cap and condition the electrode by soaking the tip (bottom 4 cm/1½") in pH 7.01 buffer solution for a couple of hours. Then follow the calibration procedure.

- Do not be alarmed if white crystals appear around the cap. This is normal with pH electrodes and they dissolve when rinsed with water.
- Connect the electrode to the meter.
- Turn the Checker Plus® on by pressing **ON/OFF** button.
- Remove the protective cap and immerse the tip of the electrode (bottom 4cm/1½") in the sample to be tested.
- Stir gently and wait for stable reading.

NEVER IMMERSER THE ELECTRODE OVER THE MAXIMUM IMMERSION LEVEL. THE CONNECTOR MUST BE ALWAYS CLEAN AND DRY.

- After use, rinse the electrode with water and store it with a few drops of **HI 70300** storage solution in the protective cap.
- **DO NOT USE DISTILLED OR DEIONIZED WATER FOR STORAGE PURPOSES.**
- Always replace the protective cap after use.



Meter Calibration

- For best results, calibrate frequently.
- From measurement mode, press and hold **ON/OFF** button until "**CAL**" message appears on display.
- Release the button and dip the tip of the electrode (bottom 4 cm/1½") in 7.01, 4.01 or 10.01 pH buffer solution at room temperature.
- On the display 7.01 pH will appear blinking.
- When the buffer is recognized the buffer value will appear and "✓" will blink.
- The calibration is automatically performed.
- If the first confirmed buffer is 4.01 or 10.01 pH, the calibration is done "**Sto**" will appear and the checker returns to normal measurement mode.
- If the first confirmed buffer is 7.01 pH, the checker asks for second calibration point.
- On the display 4.01 pH will appear blinking.
- By pressing **ON/OFF** button, the calibration is done only in 7.01 pH buffer. "**Sto**" will appear and the checker returns to normal measurement mode.
- For second calibration point, rinse the electrode with water and dip it in pH 4.01 (or pH 10.01) buffer solution.
- Once the calibration has been automatically performed "**Sto**" will appear and the checker will return to normal measurement mode with the calibrated buffer tags ON.

ALWAYS CALIBRATE USING FRESH BUFFER SOLUTIONS.

CLEAR CALIBRATION

- After entering in calibration mode, press and hold **ON/OFF** button until "**Clr**" message appears on display.
- The checker will return to measurement mode with default calibration.

Notes:

- If "**Err**" message appears, check if the meter is in the correct buffer or clean the electrode using **HI 7061M** cleaning solution.
- Press and hold the **ON/OFF** button until "**d60**" or "**d08**" or "**d--**" appears. Press the **ON/OFF** button to cycle through the following Auto Shut Off options: 8 minutes ("**d08**", default value), 60 minutes ("**d60**", OFF ("**d--**"). Press and hold the **ON/OFF** button to save and continue to normal operation.

Battery Replacement

Replace the battery when the battery symbol on the LCD blinks or the meter cannot be switched on. When the battery is low "**Erb**" message appears and the meter turns off automatically.

Remove the battery cover on the back of the meter. Replace the battery with a new CR2032, while paying attention to its polarity.

Note: Batteries should only be replaced in a safe area using the battery type specified in this instruction manual. Old batteries should be disposed in accordance with local regulations.

Warranty

Checker Plus® is guaranteed for a period of one year after date of purchase against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. This warranty is limited to repair or replacement free of charge. Damage due to accidents, misuse, tampering or lack of prescribed maintenance is not covered. If service is required, contact your local Hanna Office. If under warranty, report the model number, date of purchase, serial number and the nature of the problem. If the repair is not covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Returned Goods Authorization number from the Technical Service department and then send it with shipping costs prepaid. When shipping any instrument, make sure it is properly packed for complete protection.

Recommendations for Users

Before using Hanna Products, make sure that they are entirely suitable for your specific application and for the environment in which they are used. Operation of these instruments may cause unacceptable interferences to other electronic equipment, thus requiring the operator to take all necessary steps to correct such interferences. Any variation introduced by the user to the supplied equipment may degrade the instrument's EMC performance. To avoid damages or burns, do not put the instrument in microwave oven. For yours and the instrument safety do not use or store the instrument in hazardous environments.

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