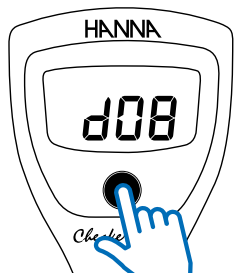
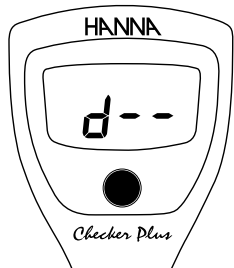


Auto-off

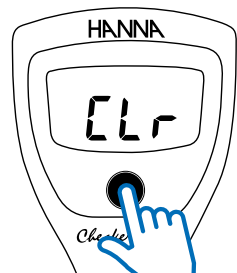


From measurement mode, press and hold the ON/OFF button. The meter will cycle through "OFF," "CAL," then current auto-off setting.



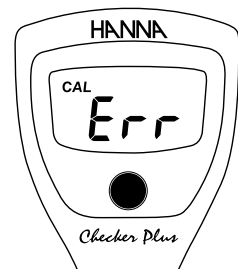
The default setting is 8 minutes ("d08"). Press ON/OFF button to change. "d60" is auto-off after 60 minutes, and "d--" disables the auto-off feature.

Clear Calibration



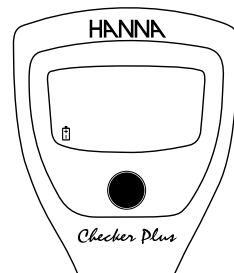
Place meter in calibration mode. Press and hold ON/OFF until "CLr" is displayed. The meter will now be at default calibration. No tags will be shown in measurement mode until calibration is performed.

"Err" Message



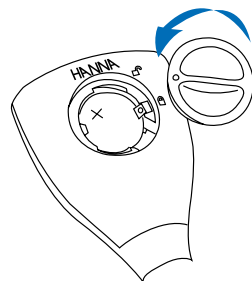
In calibration mode, if the meter displays an "Err" message when in the correct fresh buffer solution then the probe should be cleaned. Place the probe in the HI700601 cleaning solution for 15 minutes. Rinse with purified water and place in storage solution for 1 hour before calibrating. If the "Err" message persists then the HI1271 probe should be replaced.

Battery Indicator



The Checker®Plus features a low battery indicator. When the battery is running low, the tag will appear on screen. When the battery has been depleted, the tag will blink.

Battery Replacement



To change the CR2032 Li-ion battery, turn the battery cover located on the back of the meter counterclockwise to unlock. Remove cover and replace with + side facing up.

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.

Care and Maintenance

To obtain the highest accuracy for measurements it is important to follow these tips:

- Calibration is only as good as the buffer being used. The pH buffer values change over time once the sachets are opened. Fresh buffer should be used for each calibration.
- The probe should be rinsed with purified water each time before placing in buffer or sample to be tested.
- When the meter is not in use it is important to add several drops of storage solution to the protective cap to keep the probe hydrated. If storage solution is not available, pH 4 or pH 7 buffer can be used.
- For improved accuracy it is recommended to calibrate a minimum of two points. It is important to use buffers that bracket the expected value of the sample to be tested. For example, if the expected value is pH 8, the Checker®Plus should be calibrated using pH 7 and pH 10 buffers.
- It is important to calibrate and measure samples at the same temperature. A dramatic change in temperature between buffer solutions and samples to be tested will give inaccurate readings.

Accessories

pH Buffer Solution

Code	Description
HI70004P	pH 4.01 buffer solution, 20 mL sachets (25)
HI70007P	pH 7.01 buffer solution, 20 mL sachets (25)
HI70010P	pH 10.01 buffer solution, 20 mL sachets (25)
HI77400P	pH 4.01 & 7.01 buffer solution, 20 mL sachets (10 pcs., 5 ea.)
HI770710P	pH 10.01 & 7.01 buffer solution, 20 mL sachets (10 pcs., 5 ea.)

Electrode Cleaning Solution

Code	Description
HI700601P	general purpose cleaning solution, 20 mL sachets (25)

Electrode Storage Solution

Code	Description
HI70300L	electrode storage solution, 500 mL bottle
HI70300M	electrode storage solution, 230 mL bottle

HI98100 Checker®Plus



Specifications

Range	0.00 to 14.00 pH
Resolution	0.01 pH
Accuracy (@25°C/77°F)	±0.2 pH
Calibration	automatic, one or two-point
Electrode	HI1271 (included)
Battery Type	CR2032 Li-ion
Battery Life	approximately 1000 hours of continuous use
Auto-off	8 minutes, 60 minutes, or can be disabled
Environment	0 to 50°C (32 to 122°F); RH 95% max
Dimensions	50x174x21mm (2x6.8x0.9") (excluding probe)
Weight	50 g (1.8 oz.)

Meter Overview

Preparation:

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 (1.5")) in pH 7.01 buffer solution for several hours. Then follow the calibration procedure.

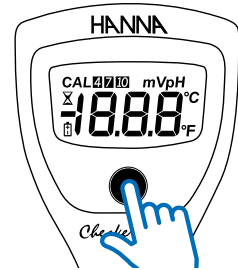
- Do not be alarmed if white crystals appear around the cap. This is normal with pH electrodes and they dissolve when rinsed with water.
- Connect the electrode to the meter.
- Turn the Checker®Plus on by pressing ON/OFF button.
- Remove the protective cap and immerse the tip of the electrode in the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

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

- After use, rinse the electrode with water and store it with a few drops of HI70300 storage solution in the protective cap.
- Replace protective cap after each use.

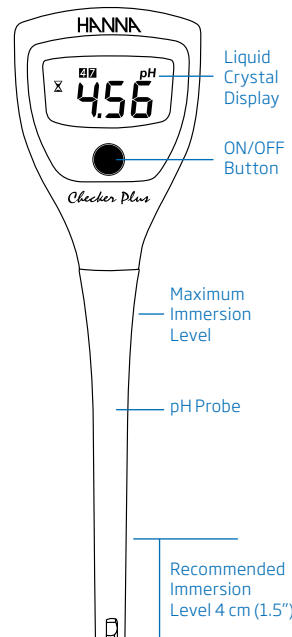
DO NOT USE DISTILLED OR DEIONIZED WATER FOR STORAGE PURPOSES.

Operation



Press the ON/OFF button to turn the meter on. All tags will be displayed.

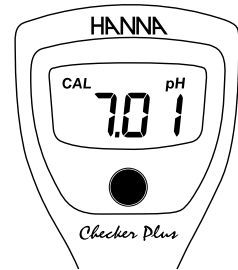
The meter will go into measurement mode: current reading and calibrated buffers are displayed.



Meter Calibration



From measurement mode, press and hold the ON/OFF button until "CAL" is displayed.



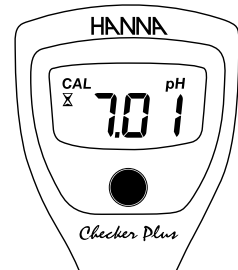
When "7.01" blinks on the display, place the tip of the probe into a pH 4, 7, or 10 buffer solution.



A For one or two-point calibration using pH 7 buffer go to procedure A

B For one-point calibration using pH 4 or pH 10 buffer go to procedure B

A One or Two-Point Calibration with pH 7



If pH 7 buffer solution is used as the first point the buffer is recognized with the blinking stability indicator.

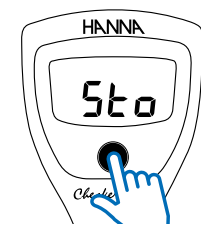
When the reading is stable, the stability indicator will disappear and pH 7 will be calibrated. If pH 7 is the only calibration point, finish one-point procedure at right.

If using pH 4 or pH 10 as a second point, continue two-point procedure at right.

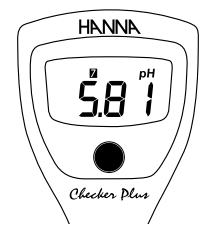
One-Point



pH 4 will then blink on the display.



Press the button to exit and save calibration. "Sto" will then be displayed.

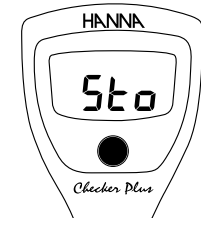


Meter will exit to measurement mode and the calibration tag will be displayed.

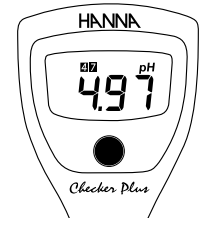
Two-Point



Use pH 4 or 10 to perform a two-point calibration. The value is automatically recognized and displayed with the blinking stability indicator.

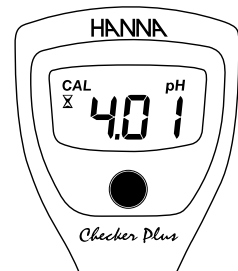


When the reading is stable, the stability indicator will disappear. "Sto" will be displayed when the calibration is saved.

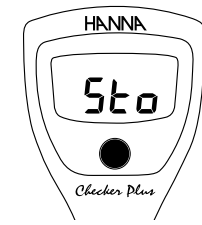


Meter will exit to measurement mode and the calibration tags will be displayed.

B One-Point Calibration with pH 4 or pH 10



If pH 4 or 10 buffer solution is used as the first point the value of the buffer is recognized and displayed with the blinking stability indicator.



When the reading is stable, the stability indicator will disappear. "Sto" will be displayed when the calibration is saved.



Meter will exit to measurement mode and the calibration tag will be displayed.