

HI981037 Skin & Scalp pH Tester



Battery Replacement



To change the CR2032 lithium battery, turn the battery cover located on the back of the tester counterclockwise to unlock. Remove cover and replace the battery with positive (+) side facing out.

Note: Only use the battery type specified in the manual. Old batteries should be disposed in accordance with local regulations.

Accessories

pH buffer solution

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

Electrode cleaning solution

Code	Description
HI700601P	General purpose cleaning solution, 20 mL sachets (25 pcs.)
HI700620P	Cleaning and disinfection solution for skin residuals, 20 mL sachets (25 pcs.)
HI700621P	Electrode cleaning solution for skin grease and sebum, 20 mL sachets (25 pcs.)

Electrode storage solution

Code	Description
HI70300L	Electrode storage solution, 500 mL bottle
HI70300M	Electrode storage solution, 230 mL bottle
HI70300S	Electrode storage solution, 30 mL dropper
HI9072	Electrode storage solution, 13 mL dropper

IST981037 01/19

Auto-off



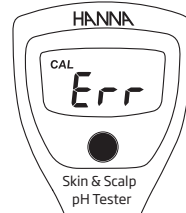
From measurement mode, press and hold the ON/OFF button, the LCD will show "OFF", "CAL" followed by "d08" (default setting, 8 minutes). Release the ON/OFF button. A single press on the ON/OFF button will change the auto-off timer to "d60" (60 minutes). To disable the auto-off feature press the ON/OFF button again, LCD will show "d--". Press and hold to exit.

Clear Calibration



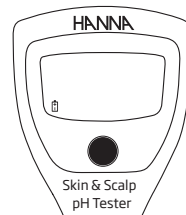
To clear the user calibration and restore the tester to factory default. From calibration mode, press and hold the ON/OFF button, the LCD will show "CLr".

"Err" Message



In calibration mode, if the probe is in the correct buffer solution and the "Err" message is displayed, the probe should be cleaned. Soak the probe in cleaning solution for 20 minutes. Rinse with water and hydrate electrode in storage solution for a minimum of 30 minutes before calibrating.

Low Battery Indicator



When the battery level is low, the tag on the LCD will blink. When the battery is depleted the "Err" message is displayed and the tester is powered off.

Care and Maintenance

Please read the information below, to ensure the highest possible accuracy:

- Fresh buffer should be used for each calibration, once the sachets are opened the buffer value can change over time.
- For improved accuracy a two-point calibration is recommended.
- If the electrode is slow or sluggish, soak it in cleaning solution for 20 minutes, and then hydrated in storage solution for a minimum of 30 minutes before recalibrating the probe.
- If measurements are taken successively, rinse the probe thoroughly in distilled or deionized water to eliminate cross-contamination.
- When not in use add a few drops of storage solution to the protective cap to keep the glass tip and the junction hydrated. If storage solution is not available pH 4.01 or pH 7.01 buffer can be used. Never store the probe in distilled or deionized water.

Note: Never immerse the tester over the maximum immersion level.

Warranty

The HI981037 is warranted for a period of one year 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 Instruments 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 tester is to be returned to Hanna Instruments, first obtain a Returned Goods Authorization (RGA) number from the Technical Service department and then send it with shipping costs prepaid. When shipping any tester, make sure it is properly packaged for complete protection.

Recommendations for Users

Before using this product, make sure it is entirely suitable for your specific application and for the environment in which it is used. Any variation introduced by the user to the supplied equipment may degrade the tester's performance. For yours and the tester's safety do not use or store the tester in hazardous environments.

Certification

All Hanna Instruments conform to the CE European Directives.



Disposal of Electrical & Electronic Equipment. The product should not be treated as household waste. Instead hand it over to the appropriate collection point for the recycling of electrical and electronic equipment which will conserve natural resources.

Disposal of waste batteries. This product contains batteries, do not dispose of them with other household waste. Hand them over to the appropriate collection point for recycling.



Ensuring proper product and battery disposal prevents potential negative consequences for the environment and human health. For more information, contact your city, your local household waste disposal service, the place of purchase or go to www.hannainst.com.

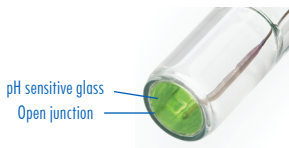
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Thank You

Thank you for choosing a Hanna Instruments product. Please read this instruction manual carefully before using the tester.
For more information about Hanna Instruments and our products, visit www.hannainst.com or e-mail us at sales@hannainst.com.
For technical support, contact your local Hanna Instruments Office or e-mail us at tech@hannainst.com.

Open junction reference

The open junction design uses a solid gel interface between the skin or scalp, and internal Ag/AgCl reference. This interface not only prevents silver from exiting the junction, but also makes it impermeable to clogging, resulting in a fast response and stable reading. This design allows for smaller sample sizes as there is no junction to submerge.



Preliminary Examination

Remove the tester and accessories from the packaging and examine it carefully to make sure that no damage has occurred during shipping. Notify your nearest Hanna Customer Service Center if damage is observed.

Each HI981037 is delivered in a cardboard box and is supplied with:

- HI70004 pH 4.01 buffer (2 sachets)
- HI70007 pH 7.01 buffer (2 sachets)
- HI700620 Cleaning and disinfection solution for skin residuals (1 sachet)
- HI700621 Electrode cleaning solution for skin grease and sebum (1 sachet)
- HI9072 Electrode storage solution (13 mL, dropper)
- CR2032 3V Lithium-ion battery (included)
- Instruction manual
- Quality certificate

Note: Save all packing material until you are sure that the tester works correctly. Any damaged or defective item must be returned in its original packing material with the supplied accessories.

General Description & Intended Use

The HI981037 Skin & Scalp pH Tester is designed to measure the pH of the skin and scalp. It features a single button operation system and is easy to use. It has a compact and waterproof casing, and automatic pH calibration at one or two points.

The flat tip of the pH electrode provides optimal contact between the skin or scalp, and the sensor. The pH electrode has an open junction design and utilizes a non-flowing gelled reference electrolyte. The flat tip allows the pH sensing surface and reference junction come into contact with the skin or scalp, and equilibrate quickly and reproducibly.

Probe Features

Flat glass tip

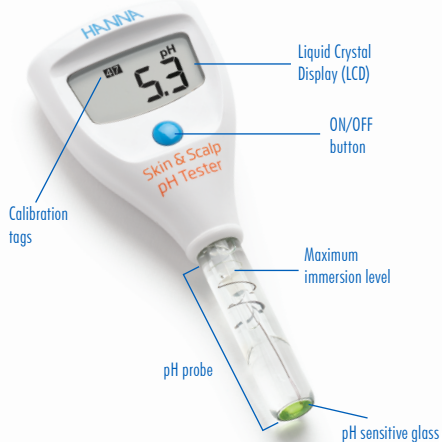
The flat tip provides optimal surface contact for skin or scalp pH measurements, and for surfaces that cannot be penetrated.

Specialized glass formulation

Specialized low temperature (LT) pH glass ensures fast stabilization and accurate results at lower temperatures.

Specifications

Range	0.0 to 14.0 pH
Resolution	0.1 pH
Accuracy	±0.2 pH @25 °C/77 °F
Calibration	Automatic, one or two-point
Electrode	Built-in probe for specific application
Battery type	CR2032 3V Lithium ion
Battery life	Approximately 1000 hours of continuous use
Auto-off	8 minutes, 60 minutes or disabled
Environment	0 to 50 °C (32 to 122 °F); RH 95% max
Dimensions	51 x 124 x 21 mm (2.0 x 4.9 x 0.9")
Weight	46 g (1.6 oz.)



Preparation

- Remove the protective cap. Do not be alarmed if salt deposits are present. Rinse the pH probe with water and blot dry.
- If the glass and/or junction are dry, soak the electrode in storage solution for a minimum of 30 minutes. Rinse with water and blot dry.
- Calibrate the electrode before using. For best results it is recommended to recalibrate periodically.

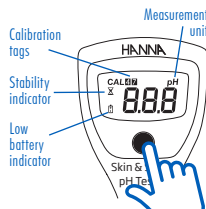
Storage

- To ensure a quick response, the glass tip and the junction should be kept moist.
- Replace protective cap with a few drops of storage solution when not in use.

Operation

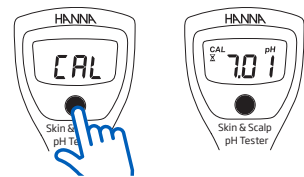
Press the ON/OFF button. The tester displays all LCD segments for a few seconds.

The tester will enter measurement mode, the current reading and calibrated buffers will be shown.



Calibration

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



- A** For one or two-point calibration using pH 7.01 buffer solution follow procedure A.
- B** For one-point calibration using pH 4.01 buffer solution follow procedure B.

Note: It is recommended to calibrate the electrode with buffers at the temperature it will be used at.

A One or two-point calibration using pH 7.01 buffer solution

When "7.01" is displayed, place the tip of the electrode in pH 7.01 buffer solution.

When "4.01" is displayed, place the tip of the electrode in pH 4.01 buffer solution.

When "4.01" is displayed, press the ON/OFF button.

"Sto" will be displayed when the calibration is saved.

Tester will return to measurement mode and the calibration tag will be displayed.

Wait until the measurement is stable and the "Sto" will be displayed when the calibration is saved.

Tester will return to measurement mode and the calibration tags will be displayed.

B One-point calibration using pH 4.01 buffer solution

When "7.01" is displayed, place the tip of the electrode in pH 4.01 buffer solution. The buffer value will be recognized automatically and "4.01" will be displayed.

Wait until the measurement is stable and the "Sto" disappears. "Sto" will be displayed when the calibration is saved.

Tester will return to measurement mode and the calibration tag will be displayed.