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› APLUSTE Digital PH Meter User Manual

APLUSTE PH Meter

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Model: PH Meter

1. INTRODUCTION

The APLUSTE Digital PH Meter is a high-accuracy instrument designed for precise pH measurement across a wide range of applications. Featuring a 0.01 pH resolution and automatic temperature compensation (ATC), it provides quick and reliable readings for various liquids, from household drinking water to specialized solutions for hydroponics and aquariums. Its user-friendly design ensures ease of operation and calibration.



Figure 1: APLUSTE Digital PH Meter

2. WHAT'S IN THE BOX

- 1 x PH meter
- 3 x pH buffer powders (for 6.86, 4.00, and 9.18 pH solutions)
- 2 x 1.5V LR44 button cells (pre-installed)
- 1 x User Manual
- 1 x Protective Case

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your PH meter:



Figure 2: PH Meter Components (Auto Calibration Button, ON/OFF Button, LCD Display, Battery Case, Agile Glass Probe, CE certification, Hang buckle, Correction potentiometer)

4. SETUP

4.1. Battery Installation

The PH meter comes with two 1.5V LR44 button cells pre-installed. If replacement is needed, open the battery compartment located at the top of the device and insert new batteries, ensuring correct polarity.

4.2. Preparing Calibration Solutions

Before calibration, prepare the buffer solutions using the provided powders:

1. For each pH buffer powder (pH 4.00, pH 6.86, pH 9.18), add the powder to a separate beaker with 250ml of distilled water.
2. Stir each solution until the powder has completely dissolved.

5. CALIBRATION

Regular calibration ensures the accuracy of your PH meter. It is recommended to calibrate the meter at least once a month, or more frequently if exposed to air for extended periods or when testing polluted water.

1. Turn on the PH meter by pressing the 'ON/OFF' button.
2. Immerse the electrode into the first standard buffer solution (e.g., pH 6.86).
3. Press and hold the 'CAL' button for 5-10 seconds to enter calibration mode.
4. Wait for the reading to stabilize (usually 5-10 seconds). The display will stop flashing when calibration is complete for that point.
5. Clean the electrode with distilled water and dry it before proceeding to the next buffer solution.
6. Repeat steps 2-5 for the pH 4.00 and pH 9.18 buffer solutions.



Figure 3: Step-by-step calibration process

6. OPERATING INSTRUCTIONS

Using your PH meter for measurements is straightforward:

1. Remove the protective cap from the electrode.
2. Turn on the meter by pressing the 'ON/OFF' button.
3. Immerse the electrode into the solution you wish to test. Ensure the electrode is fully submerged.
4. Stir gently and wait for the displayed pH reading to stabilize. The meter's Automatic Temperature Compensation (ATC) function will adjust readings based on water temperature for accuracy.
5. After finishing, clean the electrode thoroughly with distilled water and turn the meter off by pressing the 'ON/OFF' button. Replace the protective cap.

How to Calibrate?

Step 1:

Before calibration, add the pH4.00/pH6.86/pH9.18 buffer powder into beaker with 250ml of distilled water, then stir until the powder has completely dissolved.



Step 2:

Press the ON/OFF button to turn on the meter. Put the electrode into pH4.00/pH6.86/pH9.18 standard solution, waiting for the readings to stabilize (usually 5~10 Seconds).



Step 3:

Press and hold the CAL/ATC button and release after 6s. Until the readings of pH4.00/pH6.86/pH9.18 is no longer flashing, the calibration of pH4.00/pH6.86/pH9.18 is completed.



Figure 4: Step-by-step usage guide

7. WIDE APPLICATIONS

The APLUSTE Digital PH Meter is versatile and suitable for a broad range of uses:

- **Household Drinking Water:** Ensure your drinking water falls within the healthy pH range (normally between 6.5 and 8.5).
- **Pools and Spas:** Maintain optimal pH levels for water quality and swimmer comfort.
- **Aquariums:** Monitor pH to create a stable and healthy environment for marine, tropical, or freshwater fish.
- **Hydroponics:** Crucial for nutrient uptake in plant growth systems.
- **Liquid Food & Brewing:** Test pH for quality control in various food and beverage preparations.
- **RO Systems:** Verify the effectiveness of reverse osmosis water purification.



Figure 5: Importance of pH for healthy drinking water



Figure 6: PH Meter applications in aquariums and hydroponics

7.1. Official Product Video: PH Meter Great for Drinking Water

Your browser does not support the video tag.

Video 1: Demonstrates the use of the PH meter for testing drinking water quality.

8. MAINTENANCE

- **Cleaning the Electrode:** Always rinse the electrode thoroughly with distilled water after each use to prevent contamination and ensure accurate readings. Gently wipe with a clean paper towel.
- **Storage:** Store the PH meter with the protective cap on. For long-term storage, ensure the electrode is kept moist (e.g., in a small amount of KCL storage solution or distilled water if KCL is unavailable, though KCL is preferred).
- **Battery Replacement:** If the display becomes dim or the readings are inconsistent, it may be time to replace the LR44 button cells.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate or unstable readings	Needs calibration; dirty electrode; low battery; probe not fully immersed.	Recalibrate the meter; clean the electrode; replace batteries; ensure probe is submerged.
PH meter switch and digital display not sensitive	Low battery.	Replace the battery.
Cannot measure two kinds of water without calibrating	Cross-contamination or residual readings.	After testing, rinse the electrode in pure water or distilled water, wipe it dry, then test the next liquid.
Meter not working with distilled/RO water	Lack of trace minerals for conductivity.	Add a small amount of table salt to the water sample to improve conductivity (for testing purposes only, do not consume).



Healthy drinking water :

The PH value of healthy drinking water is normally between 6.5 and 8.5. The PH meter can help detect our drinking water at any time, so that we can drink healthy water at ease and make our family's life better.

Figure 7: Common questions and answers

10. SPECIFICATIONS

- **Product Dimensions:** 6.5 x 1.97 x 1.18 inches
- **Weight:** 3.53 ounces
- **Item Model Number:** PH Meter
- **Manufacturer:** APLUSTE
- **PH Range:** 0-14
- **Accuracy:** 0.01 pH
- **Power Source:** 2 x 1.5V LR44 button cells
- **Automatic Temperature Compensation (ATC):** Yes

11. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or visit the official APLUSTE website. Keep your purchase receipt as proof of purchase.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

