

[Manuals.plus](#) /

› [Tadeto](#) /

› Tadeto Multifunctional Digital pH Meter User Manual

Tadeto TE027F

Tadeto Multifunctional Digital pH Meter User Manual

Model: TE027F

1. INTRODUCTION

The Tadeto Multifunctional Digital pH Meter is a high-precision instrument designed for accurate pH measurement across various applications, including food, garden soil, plant solutions, water, meat, bread, cheese, and pool water. This device features an LCD display with °C/°F switching, backlighting, and a robust design for reliable performance.

It is equipped with advanced sensor technology and calibration algorithms to ensure high accuracy, making it suitable for both professional and home use. The meter comes with essential accessories for calibration and maintenance, simplifying its operation and ensuring longevity.

2. WHAT'S INCLUDED

Upon unboxing your Tadeto Multifunctional Digital pH Meter, please verify that all components listed below are present:

- 1 x pH Tester Meter
- 1 x User Manual
- 1 x Handbag
- 2 x Batteries
- 1 x Brush
- 1 x Protective Cover
- 1 x Zinc Alloy Protective Cap
- 1 x pH 4.01 Calibration Solution
- 1 x pH 7.00 Calibration Solution
- 1 x pH 10.01 Calibration Solution
- 1 x KCL Solution (pH Electrode Storage Solution)



Figure 2.1: All components included in the Tadeto pH Meter package.

This image displays the Tadeto pH meter along with its accessories: a carrying case, calibration solutions (pH 4.01, 7.00, 10.01), KCL storage solution, batteries, a brush, and a zinc alloy protective cap.

3. SETUP

3.1 Battery Installation

The Tadeto pH Meter requires 2 batteries for operation. Follow these steps to install them:

1. Locate the battery compartment at the top of the pH meter.
2. Rotate the cap of the battery compartment counter-clockwise to open it.
3. Insert the 2 provided batteries, ensuring correct polarity.
4. Replace the cap and rotate clockwise to secure it.

Your browser does not support the video tag.

Video 3.1: Battery installation and initial cleaning of the pH meter probe.

This video demonstrates how to rotate and install the batteries into the pH meter. It also shows the initial cleaning of the probe by rinsing it in water and wiping it gently.

3.2 Initial Probe Preparation

Before first use, or if the meter has been stored for a long time, the probe should be prepared:

- Remove the protective cap from the probe.
- Rinse the probe tip with distilled water.
- Gently wipe the probe with a clean, soft cloth.

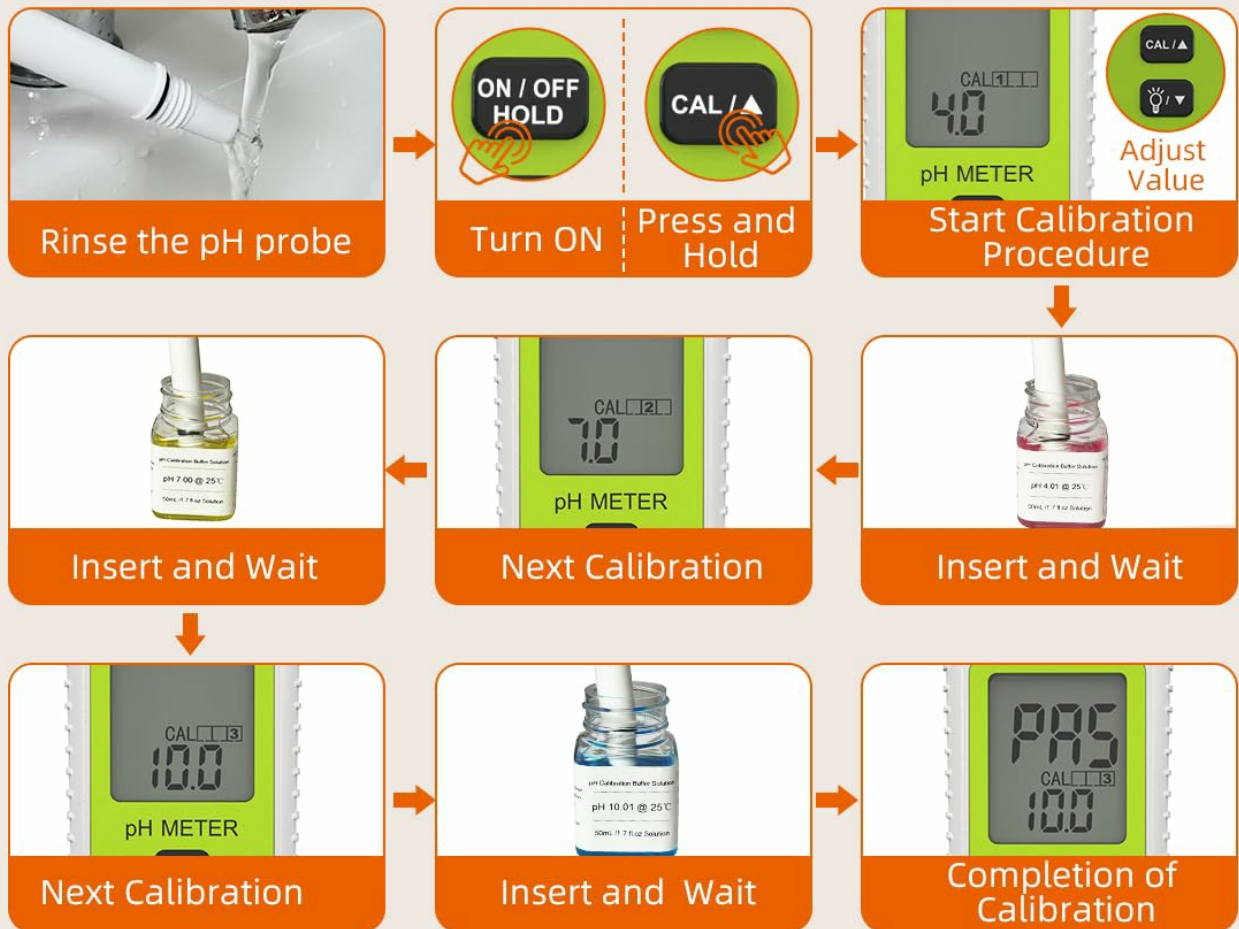
4. CALIBRATION

The Tadeto pH Meter utilizes a rigorous three-point calibration method to ensure optimal accuracy. Calibration should be performed regularly, especially after prolonged storage or if readings appear inconsistent.

4.1 Calibration Procedure

1. Turn on the pH meter by pressing the "ON/OFF HOLD" button.
2. Press and hold the "CAL/▲" button until "CAL" appears on the display.
3. Dip the probe into the pH 4.01 calibration solution. The meter will automatically recognize the solution and calibrate. Wait for the reading to stabilize.
4. Rinse the probe with distilled water and gently wipe it dry.
5. Dip the probe into the pH 7.00 calibration solution. The meter will automatically recognize the solution and calibrate. Wait for the reading to stabilize.
6. Rinse the probe with distilled water and gently wipe it dry.
7. Dip the probe into the pH 10.01 calibration solution. The meter will automatically recognize the solution and calibrate. Wait for the reading to stabilize.
8. Once all three points are calibrated, the display will show "PAS" indicating successful completion.

Calibration of pH Meter



Maintenance of Probe



Notice: If the probe is not used for a long time, please store it in KCL solution. It is normal for solutions to crystallize.

Figure 4.1: Visual guide for the pH meter calibration process.

This image illustrates the calibration steps: rinsing the probe, turning on the device, pressing and holding CAL/▲, and then inserting the probe into pH 4.0, 7.0, and 10.0 calibration solutions sequentially until calibration is complete.

5. OPERATING INSTRUCTIONS

5.1 Taking a Measurement

1. Ensure the meter is calibrated as described in Section 4.

2. Remove the protective cap from the probe.
3. Rinse the probe with distilled water and gently wipe it dry.
4. Immerse the probe into the sample solution or material to be tested. For soil or semi-solid food, use the zinc alloy protective cap to assist penetration.
5. Gently stir the probe in the sample to ensure uniform contact.
6. Wait for the reading on the LCD display to stabilize. The display shows both pH and temperature.
7. Press the "ON/OFF HOLD" button briefly to hold the current reading on the screen. Press again to release.
8. To switch between Celsius (°C) and Fahrenheit (°F), press the backlight/decrease value button.

Food & Soil pH Meter



High
Accuracy



pH+ Temperature
Display



Lock
Reading



Figure 5.1: The pH meter in use, measuring pH in a liquid.

This image shows a hand holding the Tadeto pH meter, with its probe immersed in a glass of orange juice, demonstrating its use for liquid pH measurement.



Figure 5.2: Applications of the Tadeto pH meter for different materials.

This image illustrates the versatility of the pH meter, showing its application for measuring pH in soil, plants, juice, canned food, drinks, cheese, fruit, meat, breads, and pool water.

Your browser does not support the video tag.

Video 5.1: Demonstration of pH measurement in liquid, food, and soil.

This video showcases the pH meter's functionality, demonstrating how to measure pH in a liquid solution, a piece of cake (food pH measurement), and soil (soil pH measurement). It also shows the installation of the zinc alloy protective cap for soil testing.

6. MAINTENANCE

6.1 Probe Cleaning

After each use, it is crucial to clean the probe to ensure accurate future readings and prolong its lifespan:

- Rinse the probe thoroughly with distilled water.
- Use the provided brush to gently clean any residue from the probe tip.
- Wipe the probe dry with a soft, lint-free cloth.

6.2 Probe Storage

Proper storage of the probe is essential to prevent it from drying out and to maintain its sensitivity. The probe should always be stored in KCL solution:

- Ensure the protective cap contains KCL solution. If not, add a few drops of the provided KCL solution into the cap.
- Place the protective cap back onto the probe, ensuring the probe tip is immersed in the KCL solution.
- Store the meter upright in a cool, dry place.

Notice: *If the probe is not used for a long time, please store it in KCL solution. It is normal for solutions to crystallize. If crystallization occurs, simply rinse the probe with distilled water before use.*



Tadeto PH Meter



Calibration Solution



Replaceable Batteries



Alloy Protective Cap



Backlit Screen

Others



Calibration Powder



Button Cell



No Protective Cap



No Backlit Function

VS

Figure 6.1: Guide for probe cleaning and KCL solution maintenance.

This image provides a visual guide for maintaining the pH meter probe, showing steps for rinsing the probe, adding KCL solution to the protective cap, and tightening the cover for proper storage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Inaccurate readings	Probe not calibrated; dirty probe; dried out probe; expired calibration solutions.	Recalibrate the meter (Section 4); clean the probe (Section 6.1); rehydrate probe in KCL solution for several hours; use fresh calibration solutions.
Meter does not turn on	Dead batteries; incorrect battery installation.	Replace batteries; check battery polarity (Section 3.1).
Slow response time	Probe is dry or contaminated.	Clean the probe thoroughly and rehydrate in KCL solution.
"CAL" error during calibration	Incorrect calibration solution used; probe not properly immersed; probe damaged.	Ensure correct pH buffer is used; ensure probe tip is fully submerged; contact customer support if probe is suspected to be damaged.

8. SPECIFICATIONS

- **Model:** TE027F
- **Product Dimensions:** 10.24 x 1.57 x 1.57 inches
- **Item Weight:** 1.28 Pounds
- **pH Range:** 0.00 - 14.00 pH
- **pH Accuracy:** ± 0.05 pH
- **Temperature Range:** Automatic Temperature Compensation (ATC)
- **Display:** LCD with Backlight, °C/°F switching
- **Power Source:** 2 x Batteries (included)
- **Special Features:** Zinc Alloy Protective Cap for soil/semi-solid testing, Data Hold function.

Multi- Application pH Tester



Figure 8.1: Overview of pH meter components and features.

This diagram highlights the various parts of the pH meter, including the battery compartment, LCD backlit screen, power/hold button, calibration button, probe connection, probe, and alloy protective cap. It also details display indicators such as pH value, data hold, temperature value, battery level, and temperature unit.

9. WARRANTY AND SUPPORT

Tadeto products are manufactured with high-quality standards. For warranty information and technical support, please refer to the contact details provided in the packaging or visit the official Tadeto website. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional assistance, you may also visit the [Tadeto Store on Amazon](#).

© 2025 Tadeto. All rights reserved.

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

Open the live page

<https://manuals.plus/asin/B0D4F9F3JT>

More documents and user manuals: <https://manuals.plus/>