B0CSWWL829

Digital Water pH Meter Instruction Manual

Model: B0CSWWL829 | Brand: Generic

1. Introduction

Thank you for choosing the Digital Water pH Meter. This device is designed for precise and immediate pH measurement in various applications, including aquariums, swimming pools, spas, hydroponics, and drinking water. Its portable and user-friendly design makes it an essential tool for maintaining optimal water quality. This manual provides detailed instructions for setup, operation, calibration, and maintenance to ensure accurate and reliable performance.

2. Safety Information

Please read all safety information before operating the device. Failure to follow these instructions may result in inaccurate readings or damage to the meter.

- Keep the device out of reach of children.
- Do not immerse the entire meter in water; only the electrode tip should be submerged.
- Handle calibration solutions with care. Avoid contact with skin and eyes. In case of contact, rinse thoroughly with water.
- Do not attempt to disassemble or repair the meter yourself. Refer to qualified personnel for service.
- Store the meter in a cool, dry place when not in use.

3. Product Overview

3.1 Components

The package includes the following items:

- 1 x Digital pH Meter
- 1 x Calibration Screwdriver
- 1 x Transparent Carrying Case
- Calibration buffer powders (pH 4.01 and pH 6.86)
- 3 x 1.5V AG13 Batteries (pre-installed or included)



Figure 3.1: Digital pH Meter and included accessories.

3.2 Features

- Highly accurate digital pH meter for various water types.
- Easy-to-read LCD digital display for immediate measurement results.
- Portable, lightweight, and easy to transport.
- Simple maintenance: battery replacement and cleaning of the measuring membrane.
- Ideal for aquariums, beverage production, brewing, pools, fish farming, and laboratories.
- Durable plastic material in yellow and black color.
- Measurement scale: 0.0 to 14.0 pH with 0.1 pH resolution.
- Accuracy: +/- 0.1 pH.
- Working temperature: 0 to 50 degrees Celsius.

3.3 Physical Description and Dimensions



Figure 3.2: pH Meter with dimensions (15cm length, 3cm width, 1.6cm thickness) and control labels (On/Off, Support, Calibrator).

Table 3.1: Product Specifications

Attribute	Value
Material	Plastic
Color	Yellow and Black
Display	Digital LCD
pH Scale	0.0 - 14.0 pH
Resolution	0.1 pH

Attribute	Value
Accuracy	+/- 0.1 pH
Working Temperature	0 - 50°C (32 - 122°F)
Power Supply	3 x 1.5V AG13 Button Cell Batteries
Product Dimensions	Approx. 15cm x 3cm x 2cm
Product Weight	Approx. 51g

4. Setup

4.1 Battery Installation

The pH meter operates on 3 x 1.5V AG13 button cell batteries. These are typically pre-installed. If replacement is needed:

1. Slide open the battery compartment cover located at the top of the meter.
2. Insert three new AG13 batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.



Figure 4.1: View of the battery compartment and other meter details.

5. Operation

5.1 Taking a Measurement

1. Remove the protective cap from the electrode.
2. Rinse the electrode with distilled water and blot dry with a clean tissue.
3. Press the "ON/OFF" button to turn on the meter.
4. Immerse the electrode into the solution to be tested. Ensure the liquid level is below the immersion line.
5. Gently stir the solution and wait for the reading to stabilize on the LCD display.
6. Record the pH value displayed.
7. After use, rinse the electrode with distilled water and replace the protective cap.



Figure 5.1: Digital display showing a pH reading.

6. Calibration

6.1 Initial Calibration Note

It is normal for the device to have small residues of calibration solution or water droplets inside the cap. This indicates that the product has undergone factory testing and calibration to ensure accuracy and does not mean the product has been used.

6.2 Calibration Procedure

Calibration is essential for maintaining the accuracy of your pH meter. It is recommended to calibrate the meter regularly, especially after prolonged storage or if readings appear inconsistent.

1. Prepare 250ml of distilled water for each calibration buffer powder (pH 4.01 and pH 6.86). Dissolve the powder completely in the distilled water.
2. Turn on the pH meter.

3. Immerse the electrode into the pH 6.86 buffer solution.
4. Using the provided screwdriver, gently turn the calibration trimmer (located on the top of the meter, usually near the battery compartment) until the display shows "6.86".
5. Rinse the electrode with distilled water and blot dry.
6. Now, immerse the electrode into the pH 4.01 buffer solution.
7. Adjust the trimmer again until the display shows "4.01".
8. Rinse the electrode with distilled water and replace the protective cap. Your meter is now calibrated.



Figure 6.1: pH Meter displaying a calibration value.

7. Maintenance

7.1 Cleaning the Electrode

Regular cleaning of the electrode ensures accurate readings and extends the life of your meter.

- Always rinse the electrode with distilled water before and after each use.
- If the electrode becomes contaminated with oil or other substances, clean it gently with a soft brush and a mild detergent solution, then rinse thoroughly with distilled water.
- Do not use abrasive materials or strong chemicals to clean the electrode.

7.2 Battery Replacement

When the display becomes dim or the meter does not turn on, it's time to replace the batteries. Refer to Section 4.1 for battery installation instructions.

7.3 Storage

For optimal performance and longevity, store the pH meter with the protective cap on, ensuring the electrode remains moist. If the electrode dries out, soak it in distilled water for a few hours before use.

8. Troubleshooting

If you encounter issues with your pH meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Meter does not turn on.	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.

Problem	Possible Cause	Solution
Unstable or fluctuating readings.	◦ Electrode is dirty or dry. ◦ Insufficient immersion depth. ◦ Interference from air bubbles. ◦ Needs calibration.	◦ Clean and re-moisten electrode. ◦ Ensure electrode tip is fully submerged. ◦ Gently tap the meter to dislodge bubbles. ◦ Perform calibration as per Section 6.
Inaccurate readings.	◦ Meter is out of calibration. ◦ Contaminated electrode. ◦ Expired calibration solutions.	◦ Recalibrate the meter. ◦ Clean the electrode thoroughly. ◦ Use fresh calibration solutions.

9. Specifications

For quick reference, the technical specifications of the Digital Water pH Meter are summarized below:

Parameter	Value
pH Range	0.0 - 14.0 pH
pH Resolution	0.1 pH
pH Accuracy	+/- 0.1 pH
Operating Temperature	0°C - 50°C (32°F - 122°F)
Power Supply	3 x 1.5V AG13 Button Cell Batteries
Dimensions (L x W x H)	Approx. 15cm x 3cm x 2cm
Weight	Approx. 51g

10. Warranty and Support

This product is designed for reliable performance. For any questions regarding the operation, maintenance, or troubleshooting of your Digital Water pH Meter, please refer to this manual. If further assistance is required, please contact the seller or manufacturer through your purchase platform for support.

Note: The manufacturer performs factory tests and calibration to ensure product accuracy. Any minor residues of calibration solution or water droplets inside the cap are normal and do not indicate a used product.

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