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> VIHELM BLE-P-3 Waterproof pH/Temperature Meter User Manual

## VIHELM BLE-P-3

# VIHELM BLE-P-3 Waterproof pH/Temperature Meter User Manual

Model: BLE-P-3 | Brand: VIHELM

## INTRODUCTION

This user manual provides detailed instructions for the operation, maintenance, and troubleshooting of your VIHELM BLE-P-3 Waterproof Digital Portable pH/Temperature Meter. Please read this manual thoroughly before using the device to ensure proper function and accurate measurements. Keep this manual for future reference.

## PRODUCT OVERVIEW

The VIHELM BLE-P-3 is a portable, waterproof pH and temperature meter designed for accurate water quality testing. It features a digital display, Bluetooth connectivity for app integration, and a high-precision probe.



*Image: Front view of the VIHELM BLE-P-3 pH/Temperature Meter, displaying pH and temperature readings on its backlit screen.*

## **Components and Controls**

# WATER QUALITY TESTER



Image: Diagram illustrating the components of the BLE-P-3 pH meter, including the battery compartment, backlit display, data hold/temperature unit conversion key, calibration key, ON/OFF key, and high-precision probe. Dimensions are also shown.

- **Backlit Display:** Shows pH and temperature readings.
- **HOLD/TEMP Key:** Used for data hold and temperature unit conversion.
- **CAL Key:** Initiates the calibration process.
- **ON/OFF Key:** Powers the device on or off.
- **High-precision Probe:** The sensor for pH and temperature measurements.
- **Battery Compartment:** Holds 3\*1.5V LR44 button batteries.

## SETUP

### 1. Battery Installation

1. Unscrew the top cap of the meter.
2. Insert three 1.5V LR44 button batteries, ensuring correct polarity.
3. Securely replace the top cap.

**BLE-p-3 is pH/TEMP portable multifunction water quality test meter with bluetooth app.IP67 waterproof ,with backlight**



pH	Range:0.00-14.00pH Resolution:0.01pH Accuracy:±0.01pH
TEMP.	Range:0-60°C Resolution:1°C Accuracy:±2°C
Calibration	Automatic Calibration

### Data synchronization display

The pH Meter data will be synchronized to the mobile APP. Multiple data can be displayed at the same time, which is convenient and quick. No need to frequently operate the pH Meter to view data.



Image: Close-up view of the battery compartment of the BLE-P-3 pH meter, showing the three 1.5V LR44 button batteries installed.

## 2. Initial Preparation

- Remove the protective cap from the electrode.
- Rinse the electrode with distilled water before first use and after each use.

## 3. App Download and Connection (Optional)

The BLE-P-3 supports Bluetooth 5.2 for mobile control and data synchronization. Download the compatible mobile application (e.g., "Model: BLE-pH03" as shown in images) from your device's app store.

- Enable Bluetooth on your mobile device.
- Open the app and follow the on-screen instructions to connect to the BLE-P-3 meter.



Image: The BLE-P-3 pH meter displaying a pH reading, shown alongside a smartphone screen displaying the connected mobile application with synchronized pH and temperature data. A Bluetooth icon indicates active connection.

## OPERATING INSTRUCTIONS

### 1. Power On/Off

- Press the **ON/OFF** key to turn the meter on.
- Press and hold the **ON/OFF** key to turn the meter off.

### 2. Taking Measurements

1. Ensure the meter is clean and calibrated.
2. Immerse the electrode into the sample solution. Ensure the electrode tip is fully submerged.
3. Gently stir the meter and wait for the reading to stabilize on the display.
4. Record the pH and temperature readings.



Image: A hand holding the BLE-P-3 pH meter, with its probe submerged in a glass of water, displaying a pH reading of 5.40 and temperature of 23.9°C.

### 3. Data Hold and Temperature Unit Conversion

- While measuring, press the **HOLD/TEMP** key once to hold the current reading. Press again to release.
- Press and hold the **HOLD/TEMP** key to switch between Celsius (°C) and Fahrenheit (°F) temperature units.

### 4. Calibration

The BLE-P-3 supports automatic 5-point calibration. Regular calibration ensures measurement accuracy. Calibration powders are required (pH 4.00, pH 6.86, pH 9.18 for Asia Standard; pH 4.00, pH 7.00, pH 10.01 for EU Standard).

1. Prepare the calibration buffer solutions according to the chosen standard (Asia or EU).
2. Rinse the electrode with distilled water and blot dry.
3. Immerse the electrode into the first buffer solution (e.g., pH 6.86 or pH 7.00).
4. Press the **CAL** key. The meter will automatically recognize the buffer and calibrate.
5. Repeat for the remaining buffer solutions (e.g., pH 4.00 and pH 9.18/10.01).
6. The app will display the calibration record.

## Description

PH automatic 5-point calibration, and equipped with calibration powder  
You can select Asia standard/EU standards in the APP

Asia standard: pH 4.00、pH 6.86、pH 9.18  
EU standards: pH 4.00、pH 7.00、pH10.01



[pH Meter with Blue tooth] Powered by the YINMIK mobile App, professional measurement of pH and Temp. suitable for household drinking water, hydroponics, lab, aquarium.

[Cloud Based Data Management System] Precision real-time Blue tooth data transmission, the measurement value is clear. allows you to save, manage, and share your test data at your fingertips, and never have to worry about data loss.

[Automatic Calibration pH Tester] With high sensitive glass probe, you can get a full measurement range of 0-14pH, 0.01 pH resolution. Compared with other pH meters, the pH is a 3-point calibration method, and our pH is a 5-point calibration method and equipped with a calibration powder (pH 4.00, pH 6.86, pH 9.18, and pH 7.00, pH10.01). You can calibrate effortlessly to ensure the accuracy of your measurements.

Image: The BLE-P-3 pH meter submerged in a calibration buffer, with a smartphone screen showing the calibration record within the mobile application, indicating successful calibration points.

## 5. Mobile App Features

When connected via Bluetooth, the mobile app provides enhanced functionality:

- **Data Synchronization:** Real-time display of pH and temperature data on your mobile device.
- **Backlight Control:** Toggle the meter's backlight on or off via the app.
- **Measurement Limits:** Set maximum and minimum pH limits. If readings exceed these, the value will be displayed in red on the app.
- **Data Storage and Sharing:** Save measurement data automatically or manually. Export data to Excel or share with others.



## You can set the maximum or minimum measurement by yourself

Set the maximum or minimum limit of PH according to user requirements. If the test result exceeds the range the value will be displayed in red

*Image: The BLE-P-3 pH meter displaying readings, with a smartphone showing the synchronized data in the mobile app, highlighting real-time data display and app control features like backlight toggle.*

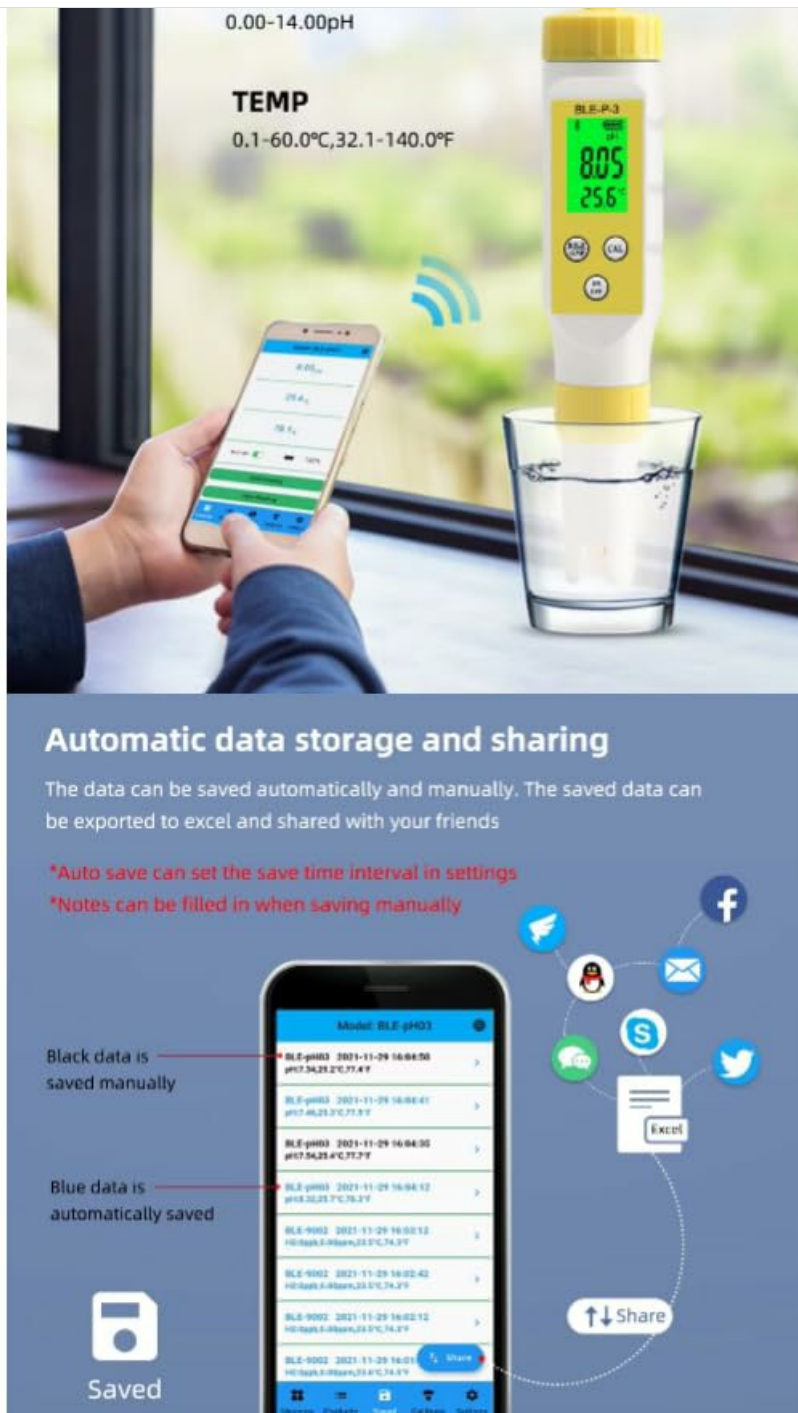


Image: The BLE-P-3 pH meter displaying readings, shown next to a smartphone screen illustrating the mobile app's feature to set maximum and minimum pH limits, with an example of a reading exceeding the limit displayed in red.

## MAINTENANCE

### 1. Electrode Cleaning

- Always rinse the electrode with distilled water before and after each use.
- If the electrode is heavily contaminated, soak it in a cleaning solution (e.g., pH electrode cleaning solution) for a short period, then rinse thoroughly with distilled water.
- Do not scrub the glass bulb of the electrode.

### 2. Storage

- When not in use, ensure the protective cap is placed back on the electrode.
- Store the electrode in a small amount of electrode storage solution or pH 4.00 buffer solution. Do not store in

distilled water as this can shorten electrode life.

- Store the meter in a cool, dry place.

### 3. Battery Replacement

- When the battery indicator shows low power, replace the three 1.5V LR44 button batteries as described in the Setup section.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate Readings	<ul style="list-style-type: none"><li>• Electrode is dirty or dry.</li><li>• Meter is not calibrated or improperly calibrated.</li><li>• Expired or contaminated buffer solutions.</li><li>• Damaged electrode.</li></ul>	<ul style="list-style-type: none"><li>• Clean the electrode thoroughly.</li><li>• Perform a fresh calibration with new buffer solutions.</li><li>• Replace buffer solutions.</li><li>• Contact customer support for electrode replacement.</li></ul>
Meter does not power on	<ul style="list-style-type: none"><li>• Dead batteries.</li><li>• Incorrect battery installation.</li></ul>	<ul style="list-style-type: none"><li>• Replace batteries.</li><li>• Check battery polarity and reinsert correctly.</li></ul>
Bluetooth connection fails	<ul style="list-style-type: none"><li>• Bluetooth not enabled on mobile device.</li><li>• Meter is too far from mobile device.</li><li>• App issue.</li></ul>	<ul style="list-style-type: none"><li>• Ensure Bluetooth is enabled.</li><li>• Move meter closer to mobile device.</li><li>• Restart the app and/or the meter.</li></ul>

## SPECIFICATIONS



pH Range	0.00-14.00pH
Temp	0.1-60.0°C 32.1-140.0 F
Accuracy	+/-0.05pH ; +/-0.5°C
Calibration	Automatic calibration By C, 6.86/4.00/9.18 or 7.00/4.00
Bluetooth	support Bluetooth 5.2 vers support mobile control the support printing , saved as
waterproof	IP67
Battery	3*1.5V LR44 ;low battery in
Size	230*37*37mm ; 95g

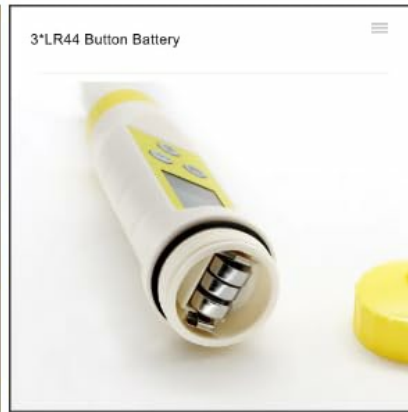


Image: A table detailing the technical specifications of the BLE-P-3 pH meter, including pH range, temperature range, accuracy, calibration method, Bluetooth version, waterproof rating, battery type, and physical size.

Parameter	Value
pH Range	0.00 - 14.00 pH
pH Resolution	0.01 pH
pH Accuracy	±0.05 pH
Temperature Range	0.1 - 60.0°C (32.1 - 140.0°F)
Temperature Accuracy	±0.5°C
Calibration	Automatic 5-point calibration (pH 6.86/4.00/9.18 or 7.00/4.00/10.01)
Bluetooth	Bluetooth 5.2 (supports mobile control)
Waterproof Rating	IP67
Battery	3 x 1.5V LR44 Button Battery
Dimensions	230 x 37 x 37 mm
Weight	95g

## **WARRANTY AND SUPPORT**

For warranty information, technical support, or service inquiries, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.