

Walfront PH-803W

Walfront PH-803W WiFi 2-in-1 ORP pH Controller Instruction Manual

Continuous Monitor for pH/ORP Measurements

1. PRODUCT OVERVIEW

The Walfront PH-803W is a WiFi-enabled 2-in-1 ORP and pH controller designed for continuous water quality monitoring. It measures and displays both pH and Oxidation-Reduction Potential (ORP) values, making it suitable for various applications requiring precise water parameter control.

Key Features:

- **2-in-1 Functionality:** Measures and displays pH (0.00-14.00PH) and ORP (-1999~1999mV) simultaneously.
- **WiFi Connectivity:** Allows remote monitoring and control via a mobile application.
- **Real-time Measurement:** Provides instant readings for continuous water quality assessment.
- **Dual Output Power Sockets:** Equipped with BNC socket electrodes and two output power sockets for connecting external devices.
- **Durable Construction:** Made from high-quality ABS material for longevity.
- **Wide Application:** Ideal for fish hatching, wine production, swimming pools, laboratories, water quality management, and various industrial uses.



Figure 1: Walfront PH-803W WiFi 2-in-1 ORP pH Controller with its main unit, dual power outlet, and pH/ORP probes.

Your browser does not support the video tag.

Video 1: Overview of the PH-803W 2-in-1 ORP Controller Continuous Monitor Meter, demonstrating its features and components.

2. SAFETY INFORMATION

- Do not touch the electrode bulb with bare hands to avoid contamination and damage.
- The glass bulb of the electrode is fragile; handle with care to prevent impact damage.
- Ensure the power supply voltage matches the device's requirements (110V for US Plug model).
- Keep the device and electrodes clean and dry when not in use.
- This product is designed for Android devices only for app connectivity.

3. SETUP

3.1 Unpacking and Component Check

Before starting, carefully unpack all components and ensure the following items are present:

- 1 x ORP/PH Water Quality Detector (Main Unit)
- 1 x ORP Probe
- 1 x pH Probe
- 2 x Suction Cups
- 1 x Hook
- 1 x Instruction Manual



Figure 2: All components included in the Walfront PH-803W package.

3.2 Initial Connection

1. Plug in the power supply (US Plug 110V) and turn on the device.
2. Connect the pH and ORP electrodes to their respective BNC sockets on the main unit.
3. Remove the protective caps from the electrodes.
4. Clean the electrodes with distilled water or alcohol, then gently wipe the plastic shell and shake off any small water droplets from the electrode tips to ensure accurate readings.

3.3 Mobile App Connection (Android Only)

1. Download the compatible mobile application (e.g., Tuya Smart app) from the Google Play Store.
2. Create an account or log in to the app.
3. Ensure your smartphone's Bluetooth is enabled.
4. On the PH-803W controller, long-press the 'WIFI' button to enter WiFi network configuration mode.
5. In the app, press 'Add Device'. The app should automatically detect the controller.
6. Select the detected device and follow the on-screen prompts to connect it to your WiFi network.
7. Once connected, press 'Done' in the app.

Your browser does not support the video tag.

Video 2: Step-by-step guide on connecting the device to a smartphone app via WiFi.

4. OPERATING INSTRUCTIONS

4.1 Taking Measurements

1. Insert the electrodes into the solution to be measured, ensuring the measuring electrode is fully immersed.
2. Gently shake the electrode to dislodge any small bubbles, which can affect test results.
3. Read the stable display number on the device's LCD screen. The device provides real-time measurements without needing to press any buttons to switch between pH and ORP.

REAL TIME MONITORING

Through Wi-Fi network settings, you can check the valid data status and water quality changes from your mobile phone anywhere

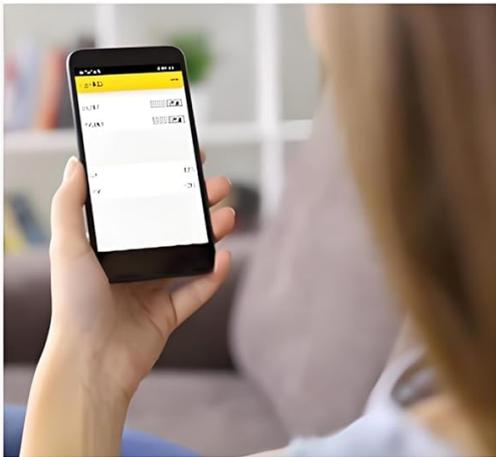
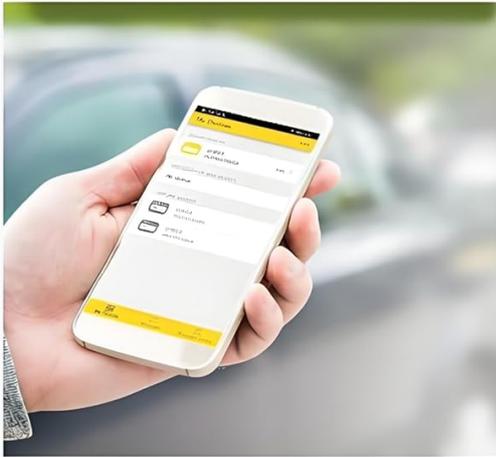


Figure 3: Real-time monitoring of water quality parameters on the PH-803W and its connected mobile application.

4.2 Using the Mobile Application

Once connected via WiFi, the mobile app allows for advanced monitoring and control:

- **Remote Monitoring:** View pH and ORP values, along with temperature, directly on your smartphone from anywhere.
- **Settings Adjustment:** Change various settings for the controller, such as temperature units. Press the WiFi button on the device to synchronize changes after adjusting settings in the app.
- **Data Logging and Export:** The app records historical data. You can view data trends over days, months, or hours. To export recorded data, select the desired parameter and press 'Export', then type a file name and save it to your phone.

Your browser does not support the video tag.

Video 3: Demonstration of data logging and real-time monitoring features through the mobile application.

5. MAINTENANCE

5.1 After Each Use

- Unplug the power supply.
- Clean the electrodes thoroughly with clean water.
- Replace the protective caps on the electrodes.

5.2 Long-term Storage and Calibration

- For long-term use, regular maintenance and calibration of the instrument and electrodes are essential to ensure accuracy.
- Refer to the specific calibration instructions provided with your calibration solutions.

6. SPECIFICATIONS

Feature	Specification
Model	PH-803W
Function	Measures ORP value / PH value of water quality
Measuring Range (ORP)	-1999 ~ 1999mV
Measuring Range (PH)	0.00 ~ 14.00PH
Accuracy (ORP)	±5 mV
Accuracy (PH)	0.05PH
Resolution (ORP)	1 mV
Resolution (PH)	0.01PH
Setting Control Range (ORP)	-1999 ~ 1999mV
Setting Control Range (PH)	0.00 ~ 19.99PH
Operating Environment Temperature	0-50°C
Display	4-digit LCD display
Material	ABS
Power Source	AC power (US Plug 110V)
Product Dimensions	0.39 x 0.39 x 0.39 inches (approximate, based on general product dimensions)

Feature	Specification
Item Weight	2.83 pounds

WiFi MOBILE PHONE CONNECTION, REAL-TIME MONITORING DATA

Long press **ESC** **WiFi** to enter WiFi network configuration mode.

The device can connect to the Internet through a mobile application.



Figure 4: Detailed view of the PH-803W controller, highlighting its dimensions and dual power outlets.

7. TROUBLESHOOTING

If you encounter issues with your Walfront PH-803W controller, consider the following:

- **Inaccurate Readings:** Ensure electrodes are clean and free of bubbles. Recalibrate the device if readings are consistently off. Check electrode integrity for any visible damage.
- **No Power:** Verify the power adapter is securely plugged into both the device and a working power outlet. Check for any tripped circuit breakers.
- **WiFi Connectivity Issues:** Ensure your smartphone's Bluetooth is on and the device is in pairing mode

(long-press WIFI button). Confirm the WiFi network credentials entered in the app are correct. Ensure the device is within range of your WiFi router.

- **App Not Detecting Device:** Restart both the device and your smartphone. Re-enable Bluetooth on your phone. Try re-entering WiFi configuration mode on the controller.
- **Electrode Life:** Electrodes have a limited lifespan and may need replacement over time, especially with frequent use or improper storage.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact Walfront customer service through your purchase platform or the official Walfront website. Keep your purchase receipt or order number handy for faster service.

© 2023 Walfront. All rights reserved.

Related Documents - PH-803W

 <p>Hygger HG050 USER MANUAL Hygger 7-in-1 aquarium test strips</p>	<p>Hygger HG050 7-in-1 Aquarium Test Strips User Manual</p> <p>User manual for Hygger HG050 7-in-1 aquarium test strips. Provides detailed instructions on testing conditions, storage, usage, and disposal for accurate aquarium water quality analysis.</p>
 <p>pH of Household Chemicals</p>	<p>pH of Household Chemicals: A Laboratory Investigation</p> <p>Explore the pH levels of common household substances. This guide details a laboratory investigation into acids, bases, and the pH scale, including procedures, materials, and data analysis for educational purposes.</p>
 <p>Ketotek KT-3 pH Meter</p>	<p>Ketotek KT-3 Portable pH Meter User Manual and Specifications</p> <p>Comprehensive guide to the Ketotek KT-3 Portable pH Meter, detailing its features, specifications, step-by-step usage instructions, calibration procedures, maintenance, and warranty information for accurate pH measurement.</p>

POOLMASTER®
We Make Water Fun!

5-Way Test Kit

To test for:

Chlorine
Bromine
pH
Alkalinity
Acid Demand



Regular Testing Helps Maintain
a Clean, Clear Sparkling Pool.

NOTE: The test results should be read within the test kit.
All test results should be read within the 10-minute testing time.
Accuracy is guaranteed for 30 days.

DO NOT USE IN SWIMMING POOLS AND
RECREATION CONSTRUCTION.

Read carefully other instructions that may accompany
this product.



[Poolmaster 5-Way Test Kit Instructions](#)

A guide to using the Poolmaster 5-Way Test Kit for measuring Chlorine, Bromine, pH, Alkalinity, and Acid Demand in swimming pools.

The screenshot shows the 'Water Test Form' with fields for Name, Address, City, State, Zip, Phone, and Email. It also includes a section for 'Water Parameters' with checkboxes for Chlorine, Bromine, pH, Alkalinity, and Acid Demand. There are instructions for sample collection and shipping, and a section for 'Comments'.

[Clean Water Store Water Test Form: Instructions and Submission Guide](#)

Detailed instructions for submitting water samples to Clean Water Store for testing. Includes sample collection, packaging, shipping, and the Water Test Form. Learn about the water parameters analyzed.

POOLMASTER®
We Make Water Fun!

5-Way Test Kit

To test for:

Chlorine
Bromine
pH
Alkalinity
Acid Demand

Regular Testing Helps Maintain
a Clean, Clear Sparkling Pool.

[Poolmaster 5-Way Test Kit: Pool Water Testing Guide](#)

Comprehensive guide to using the Poolmaster 5-Way Test Kit for essential pool water measurements including Chlorine, Bromine, pH, Alkalinity, and Acid Demand. Learn how to maintain a clean, clear, and sparkling pool.