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Walfront YY-400

Walfront YY-400 4-in-1 Portable Water Quality Monitor Test Pen

User Manual

1. INTRODUCTION

The Walfront YY-400 is a versatile 4-in-1 portable water quality monitor designed for accurate measurement of pH, ORP (Oxidation-Reduction Potential), H2 (Hydrogen concentration), and Temperature. Its pen-shaped design ensures portability and ease of use, making it suitable for various applications including testing water, swimming pools, spas, hydroponics, food, wine, and beer.

Walfront

4 in 1 Portable Water Quality Monitor Test Pen



Image: The Walfront YY-400 water quality monitor in use, demonstrating its application for testing water quality.

2. SAFETY INFORMATION

- Keep the device out of reach of children.
- Do not disassemble or modify the device.
- Ensure the protective cap is on when not in use to prevent damage to the probe.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- Handle pH buffer powders with care and follow their specific instructions for preparation.

3. PACKAGE CONTENTS

Please check the package for the following items:

- Walfront YY-400 Water Quality Monitor Test Pen
- pH Buffer Powder (pH 4.00, pH 6.86, pH 9.18)
- User Manual



Image: Contents of the Walfront YY-400 package, including the test pen and pH buffer powders.

4. PRODUCT OVERVIEW



Image: Detailed diagram illustrating the various components of the Walfront YY-400 test pen.

The YY-400 features a clear LCD screen for displaying readings, intuitive buttons for operation and calibration, and a high-precision Ti alloy probe for accurate measurements. It is designed with an IP67 waterproof rating for durability.



Image: Overview of the 4-in-1 functions and key features of the Walfront YY-400 water quality tester.

5. SETUP

5.1 Battery Installation

The YY-400 requires 3 x 1.5V (LR44) button batteries (not included). To install or replace batteries:

1. Unscrew the top cap of the device.

2. Insert the 3 LR44 batteries according to the polarity markings.
3. Securely screw the top cap back on.

Video: This video demonstrates the process of installing batteries and preparing the Walfront YY-400 for use, including handling the pH buffer powders and understanding the manual.

5.2 Initial Preparation

Before first use, remove the protective cap from the probe. If the probe appears dry, rinse it with distilled water.

6. OPERATING INSTRUCTIONS

6.1 Taking a Measurement

1. Press the **ON/OFF** button to turn on the meter.
2. Dip the electrode into the solution to be tested, ensuring the probe is fully submerged.
3. Gently stir the water and wait for the reading to stabilize on the LCD screen.
4. Press the **HOLD/TEMP** button to hold the current reading. Press again to release.
5. To switch between measurement modes (pH, ORP, H2, Temperature), press the **MODE/CAL** button.
6. After use, rinse the electrode with distilled water and replace the protective cap.



Image: The Walfront YY-400 in action, demonstrating its use for water quality monitoring.

6.2 Understanding Readings

The device displays readings for:

- **pH:** Measures the acidity or alkalinity of the solution (0.01-14.00pH).
- **ORP:** Measures the Oxidation-Reduction Potential in millivolts (-999-1999mV).

- **H2:** Measures hydrogen concentration in ppb (parts per billion) or ppm (parts per million) (0-2400ppb, 0.001-2.400ppm).
- **Temperature:** Measures temperature in Celsius or Fahrenheit (0.1-60.0°C / 32.0-140.0°F).

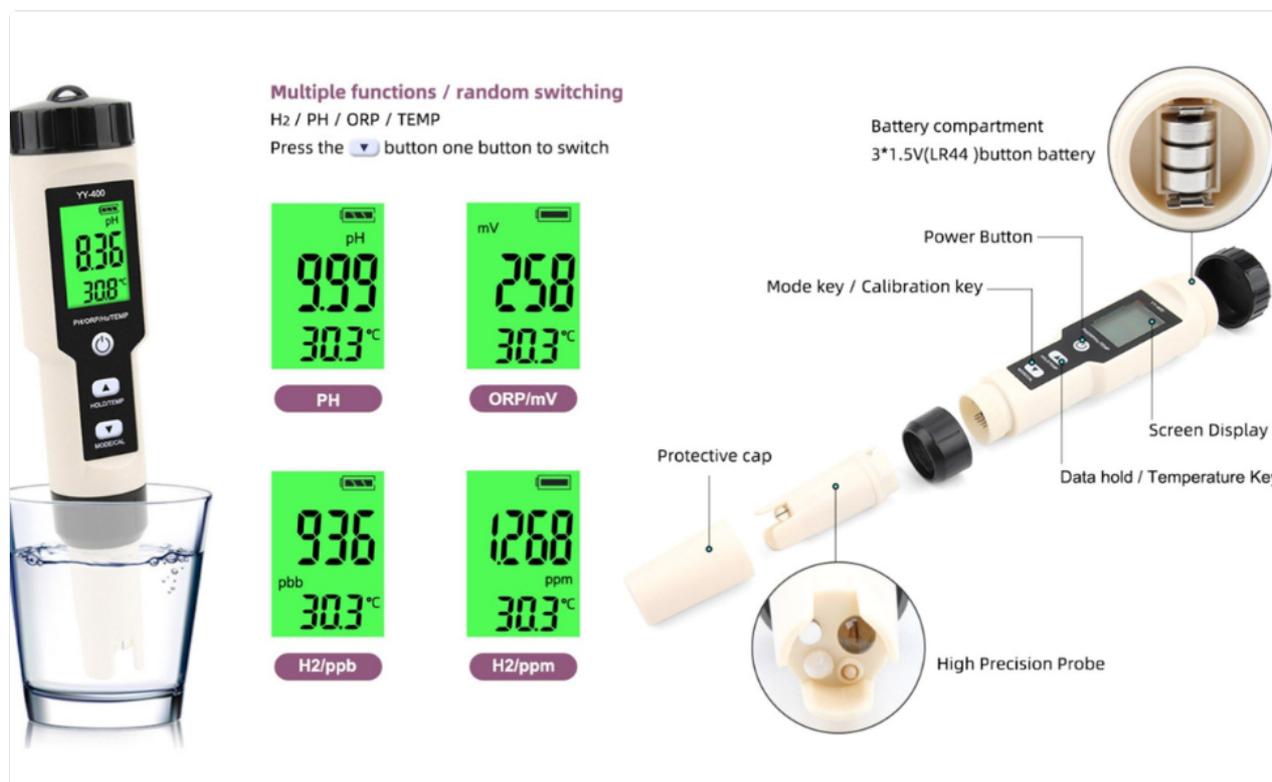


Image: The Walfront YY-400 displaying various measurement functions and an exploded view of its parts.

7. CALIBRATION

7.1 pH Calibration

Regular pH calibration ensures accuracy. Use the provided pH buffer powders (4.00, 6.86, 9.18) for calibration.

1. Prepare the buffer solutions by dissolving each powder packet in 250ml of distilled water.
2. Turn on the meter and select pH mode.
3. Dip the electrode into the 6.86 pH buffer solution.
4. Press and hold the **MODE/CAL** button until the display shows 'CAL'. Release the button.
5. The meter will automatically recognize the buffer and calibrate. Wait for the reading to stabilize and the 'CAL' indicator to disappear.
6. Rinse the electrode with distilled water.
7. Repeat the process for pH 4.00 and pH 9.18 buffer solutions, calibrating from lower to higher pH values.



Image: The Walfont YY-400 pH meter demonstrating pH measurement and the corresponding pH scale.

8. MAINTENANCE

8.1 Cleaning the Electrode

After each use, rinse the electrode thoroughly with distilled water to remove any residue. Do not use abrasive materials or harsh chemicals.

8.2 Storage

Always replace the protective cap on the electrode when not in use. Store the meter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the electrode is kept moist by adding a few drops of electrode storage solution or pH 4.00 buffer solution to the cap.

9. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-----------------------------------|--|---|
| Meter does not turn on | Dead or incorrectly installed batteries. | Check battery polarity and replace with new LR44 batteries. |
| Inconsistent or unstable readings | Electrode is dirty or dry; improper calibration; air bubbles around the electrode. | Clean the electrode; recalibrate the meter; gently stir the solution to remove air bubbles. |

| Problem | Possible Cause | Solution |
|------------------------|---|---|
| Reading stuck on 'CAL' | Calibration error; incorrect buffer solution. | Ensure correct buffer solution is used; repeat calibration process carefully. |

10. SPECIFICATIONS

| Parameter | Value |
|--|---|
| Model | YY-400 |
| Brand | Walfront |
| pH Measuring Range | 0.01 - 14.00 pH |
| ORP Measuring Range | -999 - 1999 mV |
| H2 Measuring Range | 0 - 2400 ppb / 0.001 - 2.400 ppm |
| Temperature Measuring Range | 0.1 - 60.0 °C / 32.0 - 140.0 °F |
| Automatic Temperature Compensation (ATC) | Yes |
| Waterproof Rating | IP67 |
| Power Source | 3 x 1.5V LR44 Button Batteries (not included) |
| Material | Plastic |
| Item Weight | 4.7 ounces |
| Country of Origin | China |

11. APPLICATIONS

The Walfront YY-400 is suitable for a wide range of water quality testing scenarios, including but not limited to:

- Drinking water analysis
- Fish tank and aquarium monitoring
- Swimming pool and spa maintenance
- Hydroponics and agriculture
- Laboratory testing
- Food and beverage production (e.g., wine, beer)

- Wastewater treatment

Wide Application

Suitable for water quality testing such as water source monitoring, aquaculture farmland irrigation, laboratories, breeding farms, etc.



Drinking water



Fish tank



Swimming pool



Laboratory



Farmland irrigation



Sewage disposal



Image: Visual representation of the diverse applications for the Walfront YY-400 water quality tester.