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UHPPOTE UT-RZ-30-5Pairs

UHPPOTE Wired Water Probe Liquid Overflow Leak Induction Electrode Detector Sensor Manual

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the UHPPOTE Wired Water Probe Liquid Overflow Leak Induction Electrode Detector Sensor. This device is designed to detect the presence of water and signal an alarm system, helping to prevent damage from leaks and overflows.
For more information, visit the UHPPOTE Store.

Product Overview

The UHPPOTE water leak detector consists of a main body with screw terminals for wiring and two stainless steel probes designed to detect water. When water bridges the gap between the probes, it completes a circuit, triggering a signal.

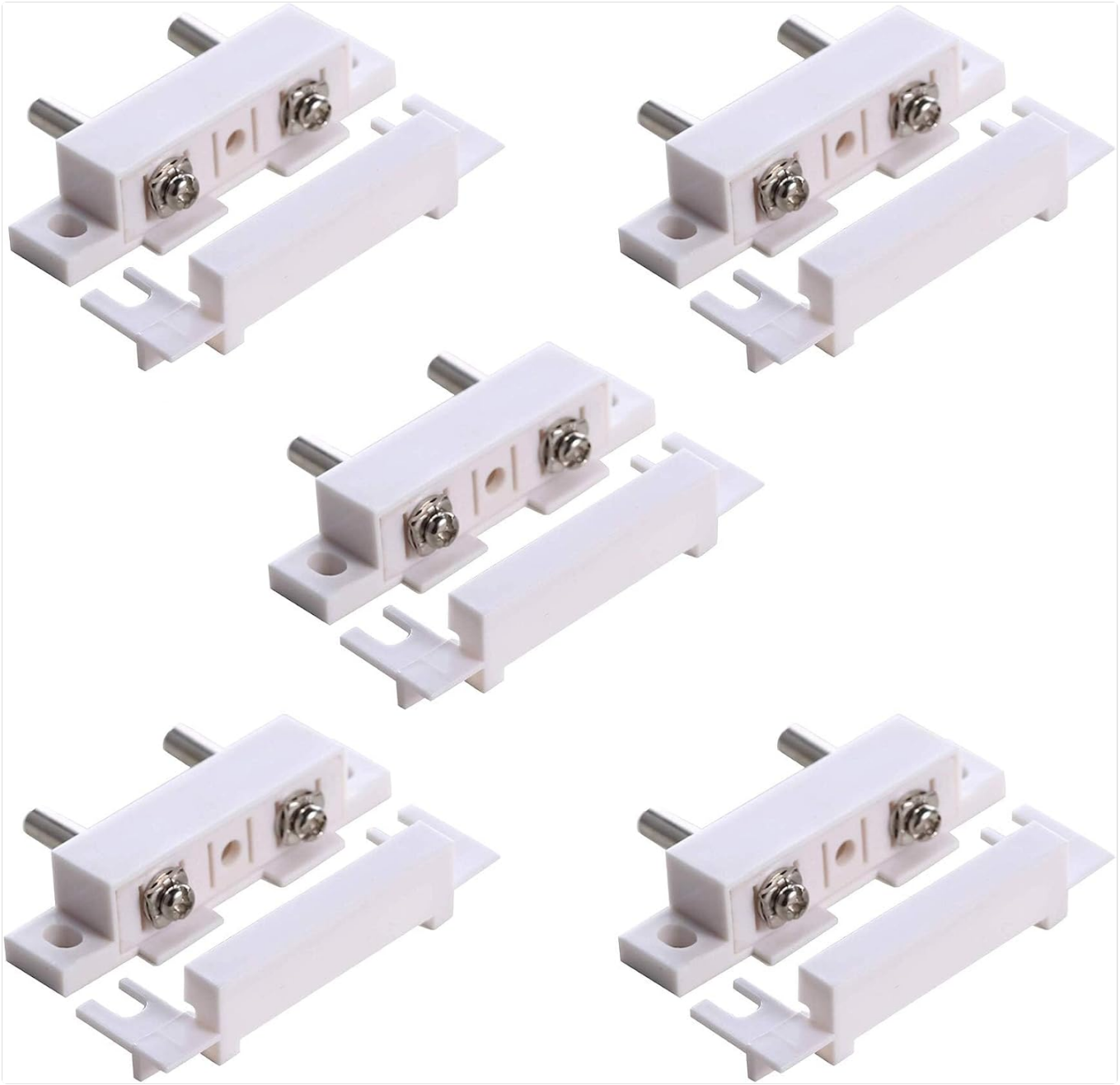


Figure 1: Multiple UHPPOTE Wired Water Probe Sensors.

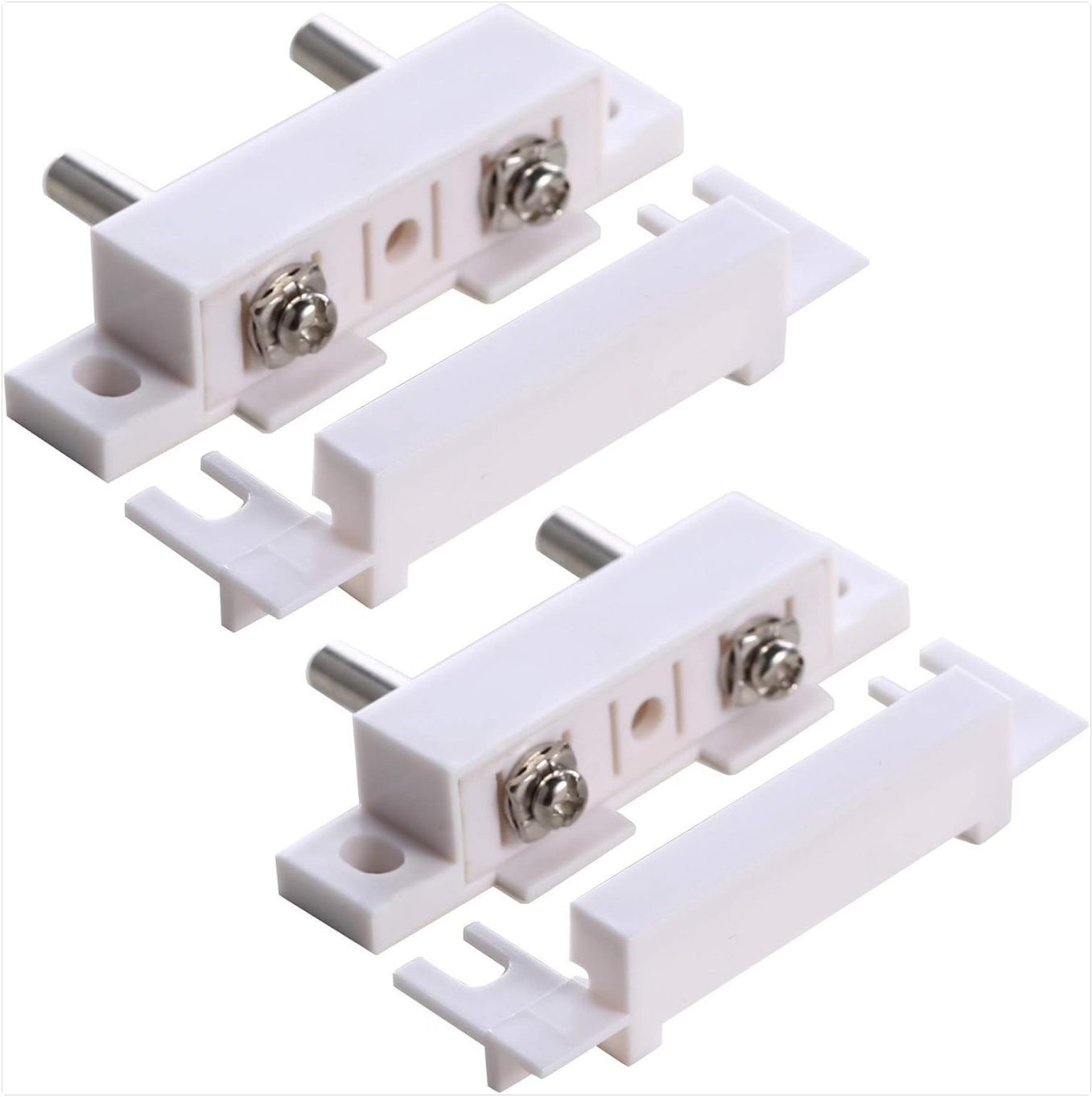


Figure 2: Close-up view of two UHPPOTE water leak sensors, highlighting the probe and terminal connections.

Key Features:

- **Case Material:** ABS plastic for durability.
- **Detecting Leads Material:** Stainless steel for corrosion resistance.
- Designed for connection to external alarm controllers.
- Suitable for various environments including water towers, basements, and data centers.

Setup and Installation

The water probe sensor requires connection to a compatible alarm controller or switch (not included). Ensure all power is disconnected before installation.

Installation Steps:

1. **Identify Location:** Choose a location prone to water leaks or overflows, such as near water heaters, under sinks,

in basements, or server rooms. The sensor should be placed where water would first accumulate.

2. **Mounting:** The sensor has mounting holes for secure installation. Use appropriate screws (not included) to fix the sensor firmly to a flat surface. Ensure the probes are positioned to make contact with water when a leak occurs.

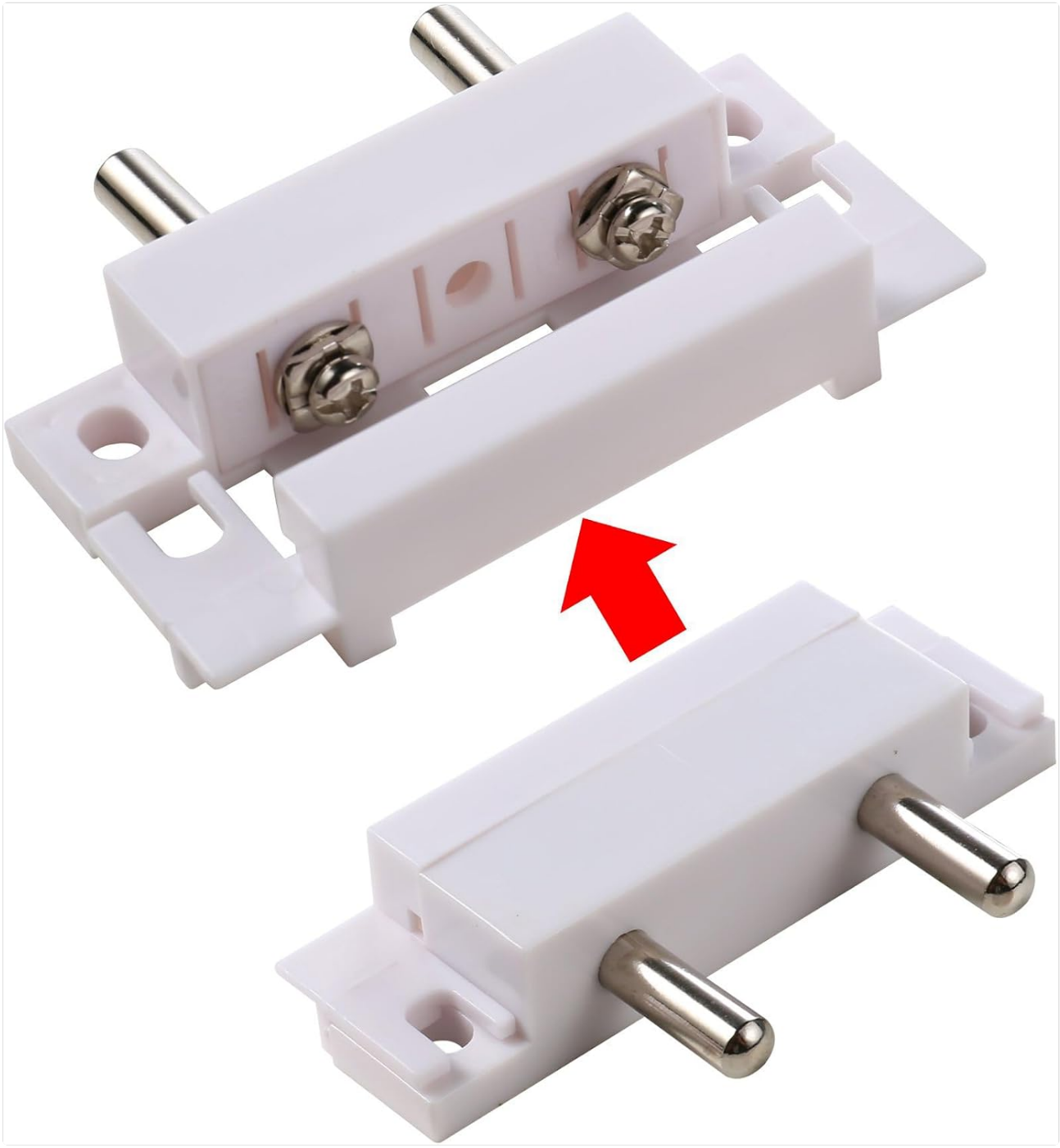


Figure 3: Sensor assembly showing the two main components.

3. **Wiring:** Connect the sensor to your alarm controller using appropriate wiring. The sensor operates by completing a circuit when water is detected. Refer to your alarm controller's manual for specific wiring diagrams. The screw terminals on the sensor are designed for easy wire connection.

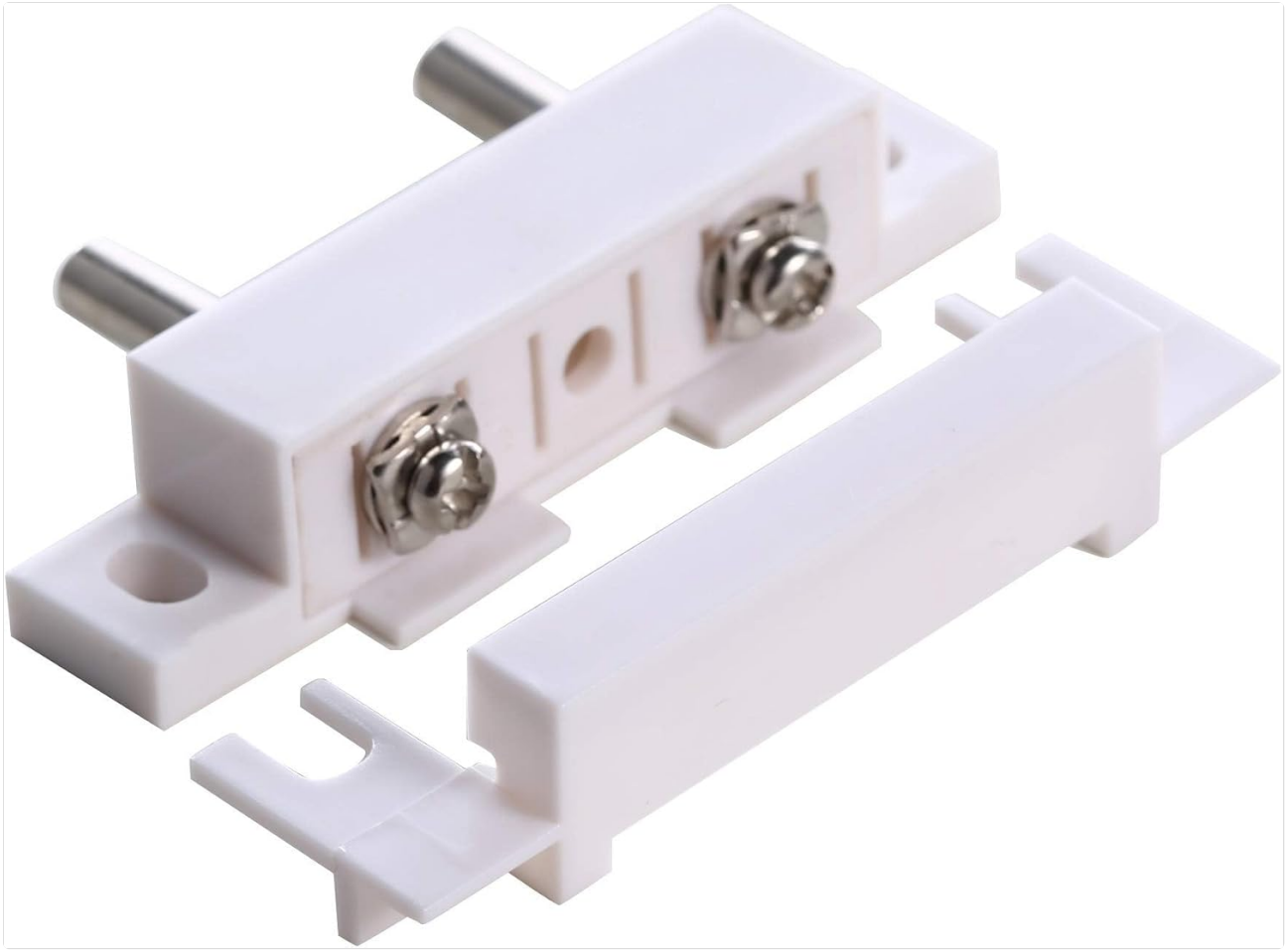


Figure 4: Detailed view of the screw terminals for wiring connections.

4. **Testing:** After installation, test the sensor by applying a small amount of water to the probes. The connected alarm system should trigger. Dry the probes thoroughly after testing.

Operating Principle

The UHPPOTE water probe operates on the principle of electrical conductivity. When water, which is conductive, comes into contact with both stainless steel probes, it creates a conductive path between them. This completes an electrical circuit, causing the sensor to change its state (e.g., close a circuit) and send a signal to the connected alarm device. The alarm device then initiates its programmed response, such as sounding an alarm or sending a notification.



Figure 5: Angled view of the sensor, highlighting the stainless steel probes.

Maintenance

The UHPPOTE water probe sensor is designed for low maintenance. However, regular checks are recommended to ensure optimal performance:

- **Clean Probes:** Periodically inspect the stainless steel probes for any dirt, dust, or mineral buildup that might affect conductivity. Clean them gently with a soft, damp cloth if necessary.
- **Test Functionality:** Conduct a functional test every 3-6 months by briefly wetting the probes to ensure the alarm system triggers correctly.
- **Inspect Wiring:** Check the wiring connections to the sensor and the alarm controller for any signs of wear, corrosion, or loose connections.

Troubleshooting

Problem	Possible Cause	Solution
Sensor does not trigger alarm when wet.	Loose or incorrect wiring. Probes are dirty or corroded. Alarm controller malfunction. Insufficient water contact with probes.	Check all wiring connections and ensure they are secure and correct. Clean the stainless steel probes. Verify the alarm controller is functioning correctly with other inputs. Ensure enough water covers both probes.
False alarms.	Probes are constantly wet or damp. Environmental condensation.	Relocate the sensor to a drier spot or ensure proper drainage. Ensure the environment is not excessively humid causing condensation on probes.

Specifications

Attribute	Value
Model Number	UT-RZ-30-5Pairs
Case Material	ABS
Detecting Leads Material	Stainless steel
Product Dimensions	2.56 x 1.38 x 0.51 inches
Item Weight	3.91 ounces (for pack of 5)
Color	White
Compatible Devices	Alarm systems
Control Method	Touch (referring to water contact)
Batteries Required	No
Country of Origin	China

Warranty and Support

For specific warranty information and technical support, please refer to the official UHPPOTE website or contact their customer service directly. Keep your purchase receipt for warranty claims.
Product ASIN: B07L94MMP7

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