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KERUI Water Leak Detector

KERUI 2.4GHz WiFi Water Leak Detector Instruction Manual

Model: Water Leak Detector

Brand: KERUI

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your KERUI 2.4GHz WiFi Water Leak Detector. Please read this manual thoroughly before using the device to ensure proper function and safety. This device is designed to detect water leaks and water levels, providing real-time alerts to help protect your home from water damage.

2. PRODUCT OVERVIEW

Enhanced Waterproof and Drop-Resistance



Figure 2.1: The KERUI Water Leak Detector main unit.

2.1 Key Features

- **3-in-1 Advanced Functionality:** Equipped with a top sensor, two bottom sensors, and an extra-long detachable detection cable (105cm) for comprehensive water leak and water level detection. Easily switch between modes by connecting or disconnecting the cable.
- **Real-time Notifications:** Connects to 2.4GHz WiFi to send instant alerts and notifications to your smartphone via the Tuya Smart app when a leak is detected.
- **Loud 100dB Alarm:** Emits a continuous 100dB audible alarm for 60 seconds upon detection, ensuring you are alerted even if not near your phone.
- **Compact and Elegant Design:** Measuring approximately 65x65x28 mm, the detector is discreet and integrates seamlessly into any home environment.
- **IP67 Waterproof Rating:** Durable IP67 waterproof casing and anti-rust coating ensure long-term use in humid environments.

2.2 Package Contents

Verify that all items are present in your package:

- KERUI Water Leak Detector
- 105cm External Probe

- Hook and Screws for mounting
- User Manual
- 4 AAA Batteries (included)

WHY CHOOSE THIS DETECTOR

KERUI VS OTHER



✓ **2.4GHz WIFI**
 Stay Informed Anytime, Anywhere via tuya app

✓ **100 Decibels**
 Loud alarm for heightened awareness.

✓ **Three-Mode Alarm**
 2 Types Ground or 1 wall-mount options.

✓ **Waterproof**
 IP67-rated, extends lifespan when wall-mounted.

✓ **Ease of Installation**
 Break it open by hand or pry it open with a cocking chip.



✗ **NO WIFI**

✗ **Less than 100 Decibels**

✗ **Dual/Single-mode Alarm**

✗ **Short Lifespan**
A Low waterproof rating

✗ **Difficulty of installation**
Screws required for battery mounting

Figure 2.2: The detector unit with its external detection cable.

3. SETUP

3.1 Battery Installation

The device requires 4 AAA alkaline batteries. These are typically pre-installed. To activate, open the battery compartment and remove the protective film from the batteries. Ensure correct polarity when inserting or replacing batteries.



Figure 3.1: Illustration of battery installation. Open the compartment, insert 4 AAA batteries, ensuring correct polarity.

3.2 App Download and Pairing

The KERUI Water Leak Detector operates with the Tuya Smart application. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network before proceeding.

1. **Download the App:** Scan the QR code provided in the manual or search for "Tuya Smart" in your smartphone's app store (Google Play Store for Android, Apple App Store for iOS).
2. **Register/Log In:** Open the Tuya Smart app and register a new account or log in with an existing one.
3. **Add Device:**
 - Ensure the detector is powered on (batteries installed and protective film removed).
 - In the Tuya Smart app, tap the "+" icon to add a device.
 - Select "Security & Sensor" then "Water Leak Detector (Wi-Fi)".
 - Follow the on-screen instructions to connect the device to your 2.4GHz Wi-Fi network. This usually involves pressing a button on the detector to enter pairing mode.
 - Once connected, you can rename the device for easier identification (e.g., "Kitchen Leak Sensor").



Figure 3.2: Steps for app download and Wi-Fi pairing. Scan the QR code to download the Tuya Smart app, then follow in-app instructions to connect to your 2.4GHz Wi-Fi network.

Download the Tuya Smart App: <https://smartapp.tuya.com/tuyasmart>

4. OPERATION

4.1 Detection Modes

The detector offers three detection methods:

- **Water Leak Detection (Default):** The two probes on the back of the alarm detect water. When water bridges these probes, the alarm triggers.
- **Drip Detection:** A probe on the front of the alarm is designed to detect small drips. Place it directly under a potential drip source.
- **Water Level Monitoring:** Use the included 105cm external detection cable with two probes to monitor specific water levels. Connect the cable to the detector to activate this mode.

Super Loud 100dB Alarm

100dB alarm loud enough to be heard by the whole house.



Figure 4.1: Three usage options for the water immersion alarm. This includes hanging the external probe, placing the unit on the ground to detect leaks from the back sensors, or placing it to detect drips from the front sensor.

4.2 Alarm Functionality

When water is detected by any of the sensors, the device will:

- Emit a loud 100dB audible alarm for 60 seconds.
- Send instant notifications to your smartphone via the Tuya Smart app.

24/7 Remote Monitoring & Multi-User Sharing

Monitor water leaks remotely and receive instant alerts via the app



Figure 4.2: The 100dB alarm is designed to be heard across your home, providing immediate awareness of a water event.

4.3 App Notifications and Remote Monitoring

The Tuya Smart app allows for remote monitoring and management:

- Receive real-time push notifications on your phone when a leak is detected, even when you are away from home.
- View the history and timestamps of all alarm events within the app.
- Share device access with multiple users (family members) through the app.
- App notifications are free. Optional phone call and SMS notifications may incur charges (refer to Tuya app for details).

Ease of Installation and Internation



Install Batteries: Insert two No. 7 batteries(No included), ensuring the correct polarity before installation.



Download App: Scan the QR code to download the app.



Pair with Wi-Fi: Connect the device to a 2.4G Wi-Fi network.



Automatic Alarm: The device will automatically sound an alarm when it detects a leak or dripping water.

Figure 4.3: Remote monitoring and multi-user sharing capabilities through the Tuya Smart app, allowing multiple family members to receive alerts.

THREE USAGE OPTIONS FOR SQUARE WATER IMMERSION ALARM



Figure 4.4: Example of real-time water leak notifications received through the Tuya Smart app.

5. INSTALLATION AND PLACEMENT

The compact design and IP67 rating allow for flexible placement in various locations prone to water leaks.

- **Recommended Locations:** Near water-containing appliances such as dishwashers, washing machines, water heaters, under sinks, in bathrooms, kitchens, basements, laundry rooms, and near sump pumps.
- **Mounting Options:**
 - **Ground Placement:** Simply place the detector on the floor in areas where leaks are likely to occur. Use the back sensors for general leak detection or the front sensor for drip detection.
 - **Wall Mounting/Hanging:** Utilize the included hook and screws to mount the detector on a wall. The 105cm external probe can then be extended to the desired detection point, such as inside a cabinet under a sink.
- **Naming Devices:** Use the Tuya Smart app to name each detector and specify its location (e.g., "Basement Water Heater," "Kitchen Sink") for clear identification of alarm sources.



Figure 5.1: Examples of suitable locations for installing the KERUI Water Leak Detector.

6. MAINTENANCE

- **Battery Replacement:** The app will notify you when battery levels are low. Replace all 4 AAA batteries promptly to ensure continuous protection. Always use new alkaline batteries.
- **Sensor Cleaning:** Periodically inspect the detection probes for any dirt, dust, or corrosion. Clean them gently with a soft, dry cloth to ensure optimal sensitivity.
- **Firmware Updates:** Check the Tuya Smart app regularly for any available firmware updates for your device. Updates can improve performance and add new features.
- **Environmental Conditions:** While the device is IP67 rated, avoid prolonged submersion or exposure to extreme temperatures outside its operating range.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed.	Ensure batteries are inserted with correct polarity. Replace with new AAA alkaline batteries.
No app notifications received.	Device not connected to Wi-Fi. Phone notifications are disabled for the Tuya Smart app. Weak Wi-Fi signal.	Verify Wi-Fi connection in the app. Re-pair if necessary. Enable notifications for the Tuya Smart app in your phone's settings. Move the detector closer to your Wi-Fi router or use a Wi-Fi extender.
Device does not detect water.	Sensors are dirty or obstructed. Water level is too low to reach sensors. External probe not properly connected (if using).	Clean the sensor probes. Adjust placement to ensure water can reach the sensors. Ensure the external probe is securely plugged into the detector.
Audible alarm is too quiet or not sounding.	Low battery. Speaker obstruction.	Replace batteries. Ensure the speaker grille is not blocked.
Cannot connect to 2.4GHz Wi-Fi.	Router is 5GHz only or dual-band with combined SSID. Incorrect Wi-Fi password.	Ensure your router has a 2.4GHz network enabled. If it's a combined SSID, try separating the 2.4GHz and 5GHz networks in your router settings. Double-check the Wi-Fi password.

8. SPECIFICATIONS

Feature	Detail
Brand	KERUI
Model	Water Leak Detector
Connectivity	2.4GHz Wi-Fi
Power Source	4 x AAA Alkaline Batteries
Sound Level	100 dB
Control Method	Tuya Smart Application
Dimensions (L x W x H)	8 x 2.5 x 8 cm (approx. 65x65x28 mm for the main unit)
Weight	44 grams
Waterproof Rating	IP67
External Probe Length	105 cm
Max Range (Wireless)	20 Meters (approximate, depends on environment)
Sensor Technology	Contact Sensor

9. SAFETY INFORMATION

- Keep the device out of reach of children and pets.
- Do not attempt to disassemble or repair the device yourself. This may void the warranty and cause damage.
- Dispose of used batteries according to local regulations. Do not dispose of batteries in fire.
- Ensure the device is placed on a stable surface or securely mounted to prevent accidental falls.
- This device is designed to detect water leaks and levels. It is not a substitute for proper plumbing maintenance or flood prevention measures.

10. WARRANTY AND SUPPORT

For any questions, suggestions, or technical support regarding your KERUI Water Leak Detector, please contact KERUI customer service. Refer to the product packaging or the official KERUI website for contact information. Information regarding specific warranty periods or repair services is not available in this manual. Please retain your purchase receipt for warranty claims.