

Haozee HZ-WF-WV

Haozee HZ-WF-WV WiFi Smart Water Valve and Automatic Shutoff User Manual

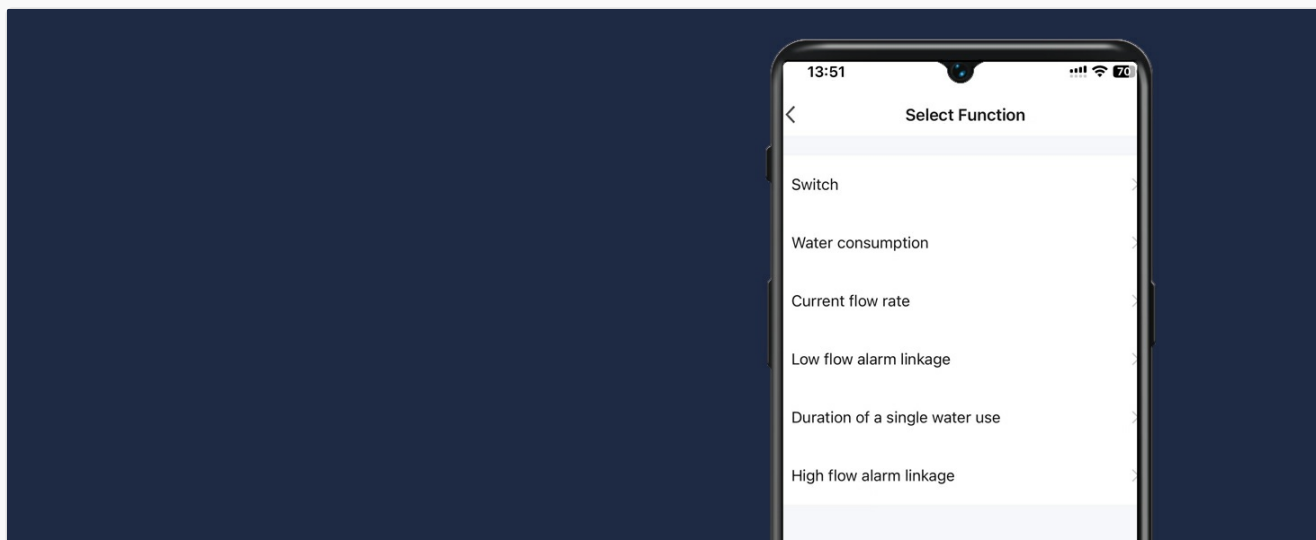
1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Haozee HZ-WF-WV WiFi Smart Water Valve. This device is designed to monitor water flow, detect leaks, and provide automatic water shutoff capabilities, enhancing water management and protecting your property from potential water damage. Please read this manual thoroughly before installation and use.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Haozee Smart Water Valve (Model: HZ-WF-WV)
- User Manual
- Power Adapter (5V/2A AC)
- Power Cable
- 3/4-inch Head Adapters (2 pcs)
- Silicone Waterproof Rings
- Plumbing Tape



A layout of all components included in the product package: the Smart Water Valve, power adapter, power cable, plumbing tape,

silicone waterproof rings, and two 3/4-inch head adapters.

3. SAFETY INFORMATION

- Ensure the power supply matches the specified voltage (5V/2A AC).
- Do not expose the device to extreme temperatures or direct sunlight.
- The device is rated IP66 for water resistance; however, avoid submerging it in water.
- For plumbing work, it is recommended to consult a qualified professional.
- Turn off the main water supply before installing the valve.

4. PRODUCT OVERVIEW

The Haozee HZ-WF-WV Smart Water Valve integrates advanced features for comprehensive water management:

- **WiFi Connectivity:** Connects to 2.4GHz and 5GHz Wi-Fi networks for remote control via a mobile application.
- **Ultrasonic Flow Detection:** Utilizes W-type ultrasonic technology for accurate real-time water flow measurement.
- **Automatic Shutoff:** Can automatically close the valve based on preset flow rate alarms or integration with a leak detector.
- **Smart Water Meter:** Monitors and records water usage statistics (daily, monthly, yearly).
- **Built-in Battery:** Features a 2600mAh NiMH rechargeable battery for manual operation during power outages.



The Haozee HZ-WF-WV Smart Water Valve shown alongside a smartphone displaying its control application, illustrating remote monitoring and operation capabilities.

5. SETUP AND INSTALLATION

5.1 Physical Installation

1. **Prepare the Installation Site:** Identify the main water line where the valve will be installed. Ensure the pipe diameter is DN20 (3/4-inch). Turn off the main water supply before proceeding.
2. **Install the Valve:** The valve is designed for lead-free copper water pipes. Use the provided 3/4-inch head adapters and plumbing tape to ensure a secure, leak-free connection. Ensure the flow direction arrow on the valve aligns with the water flow in your pipe. Professional installation is recommended.



An image of the Haozee Smart Water Valve integrated into a water pipe system, highlighting its digital screen that displays real-time water flow data and operational status.

5.2 Power Connection

1. Connect the provided power cable to the valve and then to the 5V/2A AC power adapter.
2. Plug the power adapter into a standard electrical outlet. The device will begin charging its internal 2600mAh

NiMH rechargeable battery.

3. The built-in battery allows for manual valve operation during power outages. Note that APP control and monitoring functions are not available when operating solely on battery power.



The Smart Water Valve connected to its power adapter, emphasizing the requirement for a 5V-2A AC/DC power supply for continuous operation.

5.3 App Installation and Wi-Fi Connection

1. Download the Tuya Smart or Smart Life app from your smartphone's app store (iOS or Android).
2. Register or log in to your account.
3. Add the device by following the in-app instructions. The valve supports both 2.4GHz and 5GHz Wi-Fi networks and does not require a separate gateway.
4. Ensure your smartphone is connected to the same Wi-Fi network during the pairing process.

Support 2.4G & 5G Network Connection

compatible with dual-band network



The Smart Water Valve highlighting its compatibility with dual-band 2.4GHz and 5GHz Wi-Fi networks for flexible and reliable connectivity.

6. OPERATING INSTRUCTIONS

6.1 Remote Control and Monitoring

- Once connected to the app, you can remotely open or close the water valve from anywhere with an internet connection.
- The app displays real-time water flow rates and total water consumption.

Realtime Screen Display of Water Flow Data



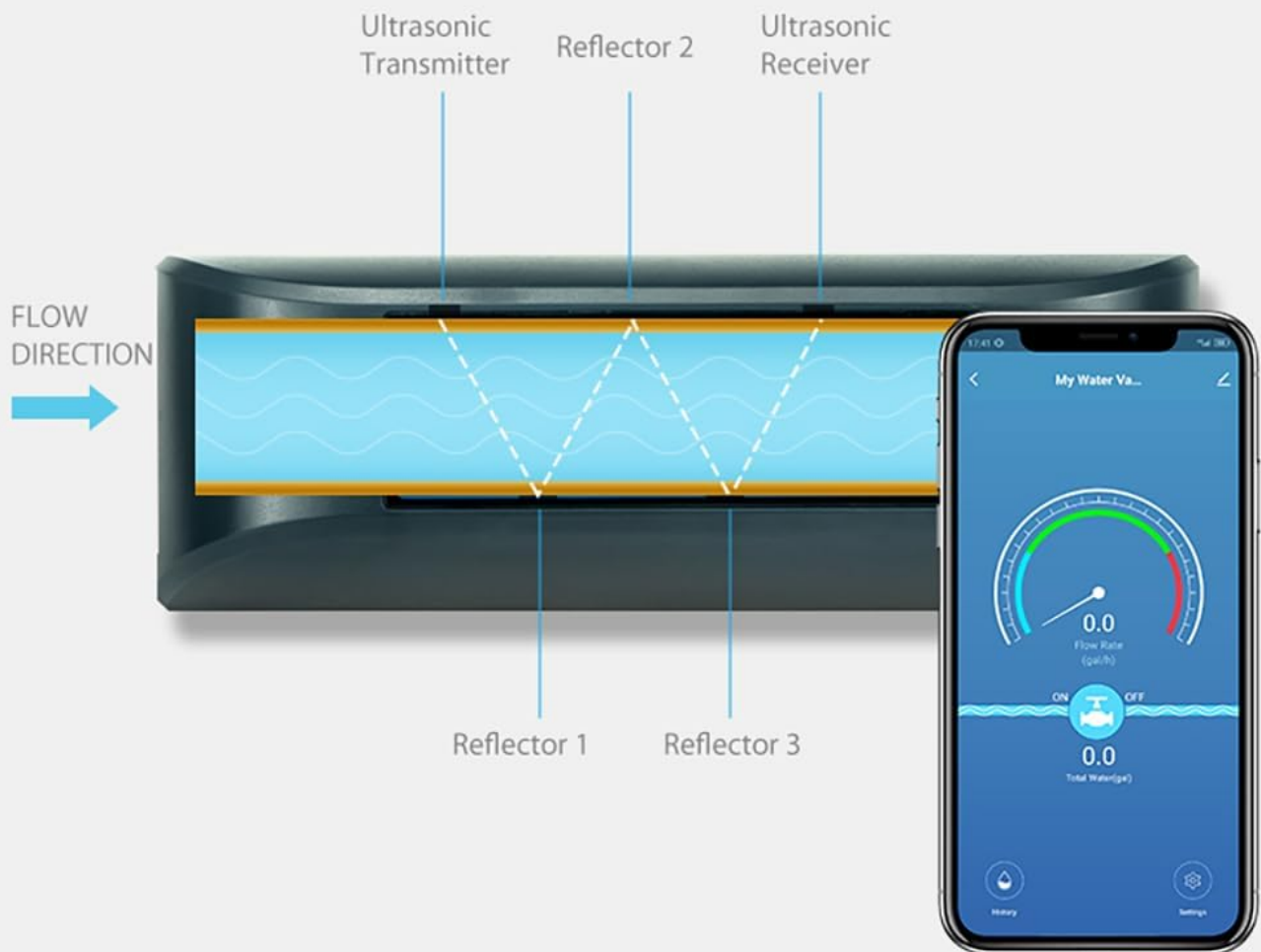
A visual representation of the water valve's digital display and the corresponding mobile application, both showing real-time water flow data and total water usage.

6.2 Automatic Shutoff and Alarms

- **Ultrasonic Flow Detection:** The valve uses W-type ultrasonic technology for precise flow measurement.
- **Flow Rate Alarms:** Set custom high or low water flow rate alarms within the app. If the flow exceeds or falls below the set values, the valve can automatically close to prevent waste or damage.
- **Leak Detector Integration:** Through the Tuya app, you can create automation scenes to link the Smart Water Valve with a Tuya WiFi Water Leak Detector (sold separately). If a leak is detected, the valve can automatically shut off the water supply.

Ultrasonic Flow Rate Detect

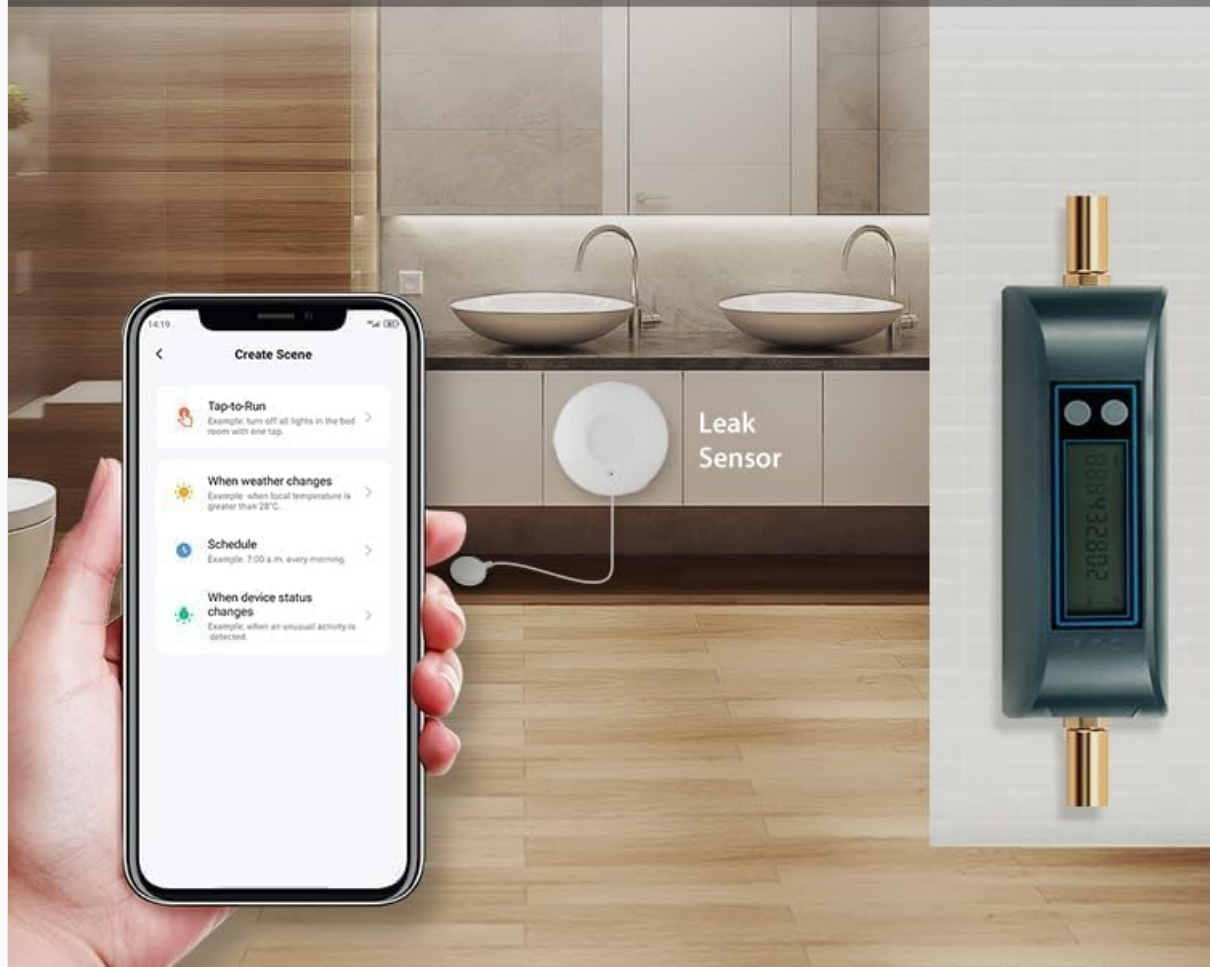
Using W-shaped ultrasonic water flow measurement technology, accurate and reliable



An internal diagram of the Haozee Smart Water Valve, detailing the W-type ultrasonic technology used for accurate water flow detection, showing the transmitter, reflectors, and receiver.

Automation Scene, Works with Leak Sensor

When leak sensor detects leakage, then automation
shut off the water valve



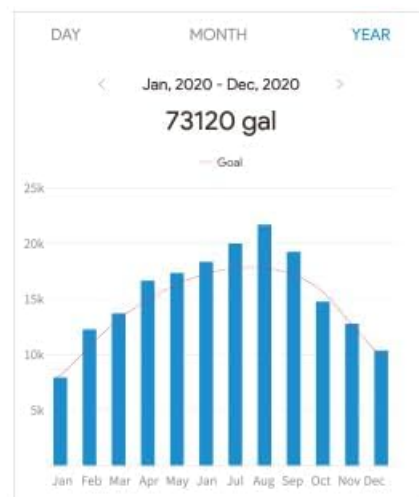
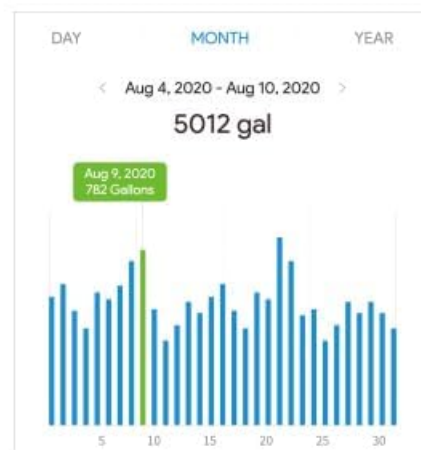
An example setup showing the Smart Water Valve and a separate leak sensor in a bathroom environment, demonstrating how an automated scene can shut off water upon leak detection.

6.3 Smart Water Meter Functions

- The app provides detailed water usage statistics, including daily, monthly, and last usage reports.
- Use these statistics to monitor and manage your water consumption more efficiently.

Monitoring Water Data

Record water status in App how to save water and energy conservation



Screenshots from the mobile application illustrating the water usage monitoring features, including graphs for daily, monthly, and yearly consumption, aiding in water management.

7. MAINTENANCE

- Regularly check the valve and pipe connections for any signs of leaks.
- Keep the device clean and free from dust and debris.
- Ensure the power adapter and cable are in good condition.
- The built-in rechargeable battery is designed for long life; no user maintenance is required for the battery itself.

8. TROUBLESHOOTING

Issue	Possible Cause	Solution
Device not connecting to Wi-Fi	Incorrect Wi-Fi password; Device too far from router; Router operating on unsupported frequency (e.g., 5GHz only, but device supports both); Network congestion.	Verify Wi-Fi password. Move device closer to router. Ensure router is broadcasting 2.4GHz or 5GHz. Try restarting router.
App control not working	Device is in battery mode; No internet connection; App is outdated.	Ensure device is connected to AC power for app control. Check internet connectivity. Update the app to the latest version.
Inaccurate water flow readings	Improper installation; Air in pipes; Sensor obstruction.	Verify correct installation and flow direction. Bleed air from pipes. Ensure sensor area is clear.
Valve not shutting off automatically	Automation scene not configured correctly; Leak detector not paired or faulty; Flow alarm thresholds not set.	Review and adjust automation scene settings in the app. Check leak detector status. Set appropriate flow alarm thresholds.

9. SPECIFICATIONS

Feature	Detail
Model Number	HZ-WF-WV
Power Input	DC 5V/2A
Battery	Built-in 2600mAh NiMH rechargeable battery
Valve Diameter	DN20 (3/4-inch)
Water Flow Reporting Accuracy	0.1 gal
Working Water Pressure	0 ~ 1.3 MPa
Wireless Frequency	2.412 ~ 2.483 GHz / 5.18 ~ 5.85 GHz
Wireless Standard	IEEE 802.11a/b/g/n; IEEE 802.11a/n/11ac
Bluetooth	Bluetooth 5.0
Wireless Distance	Up to 45 meters (approx. 147 feet)
Thread Specification	NPT & BSP compatible
Waterproof Level	IP66
Working Temperature	1 ~ 60°C (34°F ~ 140°F)
Working Humidity	1 ~ 95% RH (non-condensing)
Product Dimensions	195mm x 78mm x 102mm (7.68 x 3.07 x 4.02 inches)

10. WARRANTY INFORMATION





Haozee products are manufactured to high quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact customer support. This warranty typically covers defects in materials and workmanship under normal use.

11. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your Haozee Smart Water Valve, please contact our customer support team. Refer to the product packaging or the official Haozee website for the most current contact information.



Related Documents - HZ-WF-WV

<div></div>	<p>Haozee HZ-HT-01 Smart Temperature Humidity Sensor FCC Test Report</p> <p>Official FCC test report for the Haozee HZ-HT-01 Smart Temperature Humidity Sensor, detailing compliance with FCC Part 15.247 standards. Includes test summary, results, and technical specifications.</p>
<div></div>	<p>Haozee Smart Vibration Sensor HZ-ZV-01 FCC Test Report</p> <p>FCC test report for the Haozee Smart Vibration Sensor (Model: HZ-ZV-01), detailing compliance testing against FCC Part 15 Subpart C standards by Guangdong Asia Hongke Test Technology Limited.</p>
<div></div>	<p>RF Exposure Evaluation Report for Haozee Smart Vibration Sensor HZ-ZV-01</p> <p>This report presents the RF exposure evaluation for the Haozee Smart Vibration Sensor, model HZ-ZV-01, conducted by Guangdong Asia Hongke Test Technology Limited. It details compliance with FCC standards including 47 CFR §1.1310, §2.1093, and KDB447498 D01.</p>
<div></div>	<p>Haozee HZ-PIR-01 Smart Motion Sensor FCC Test Report</p> <p>This document is an FCC test report for the Haozee HZ-PIR-01 Smart Motion Sensor, detailing compliance with FCC Part 15.247 and ANSI C63.10 standards. It includes test summaries, general information, and results for conducted and radiated emissions, power spectral density, bandwidth, and antenna requirements.</p>



[RF Exposure Evaluation Report - Haozee Smart Temperature Humidity Sensor \(HZ-HT-01\)](#)

Official RF exposure evaluation report for the Haozee Smart Temperature Humidity Sensor, Model HZ-HT-01. Includes test results, methodology, and compliance statements according to FCC standards.



[TH16 Wi-Fi Temperature & Humidity Sensor User Manual - Setup & Features](#)

Official user manual for the TH16 Wi-Fi Temperature & Humidity Sensor. Learn about its features and how to set it up using the Smart Life app for real-time environmental monitoring.