Zuomeng ZM-115

Zuomeng Wireless Automatic Pool Water Level Control System

Model ZM-115 User Manual

Introduction Components Specifications Setup Operating Modes Indicators Maintenance Troubleshooting Support

1. Introduction

The Zuomeng Wireless Automatic Pool Water Level Control System, Model ZM-115, is designed to maintain optimal water levels in pools, spas, and water tanks automatically. This system utilizes a wireless sensor to monitor water levels and a valve controller to manage water refilling, ensuring efficient water management and preventing overflow or low-level conditions.

The system features a wireless communication range of up to 500 feet between the sensor and the controller, making it suitable for various outdoor installations. Its IP65 waterproof rating ensures durability in diverse aquatic environments.



Figure 1.1: Overview of the Zuomeng Wireless Automatic Water Injection System components and typical pool setup.



Figure 1.2: The system is widely applicable for various aquatic environments including pools, spas, and decorative ponds.

2. Product Components

The package includes the following items:

- Valve Controller

- Water Level Sensor
- Automatic Valve
- Tape
- Waterproof Cable Connectors
- Full Accessory Kit for installation

3. Specifications

Brand	Zuomeng
Model Number	ZM-115
Color	Black
Power Source	Corded Electric (for Controller)
Mounting Type	Wall Mount (for Controller)
Maximum Wireless Range	500 Feet
Sensor Technology	Ultrasonic Sensor
Item Weight	1.76 Kilograms
Waterproof Rating	IP65 (Controller)



Figure 3.1: Product dimensions for the valve controller, water level sensor, automatic valve, and AC adapter.

4. Setup and Installation

Follow these steps for proper installation of your automatic water level control system:

1. **Install the Water Level Sensor:** Mount the water level sensor inside your pool, spa, or water tank at the desired water level. Ensure it is securely fastened and can accurately detect the water surface. The sensor requires two AAA batteries (not included).
2. **Install the Automatic Valve:** Connect the automatic valve to your water supply line, ensuring proper plumbing connections. The valve will control the flow of water into your aquatic environment.
3. **Mount the Valve Controller:** Install the valve controller in a suitable outdoor location, preferably wall-mounted, within 500 feet of the water level sensor. The controller has an IP65 waterproof rating.
4. **Connect Power:** Plug the valve controller into a standard 120VAC power outlet using the provided AC adapter.
5. **Connect Valve to Controller:** Use the waterproof cable connectors to link the automatic valve to the valve controller.
6. **Pairing:** Ensure the water level sensor and valve controller are paired. Refer to the specific pairing instructions in

the included quick start guide.

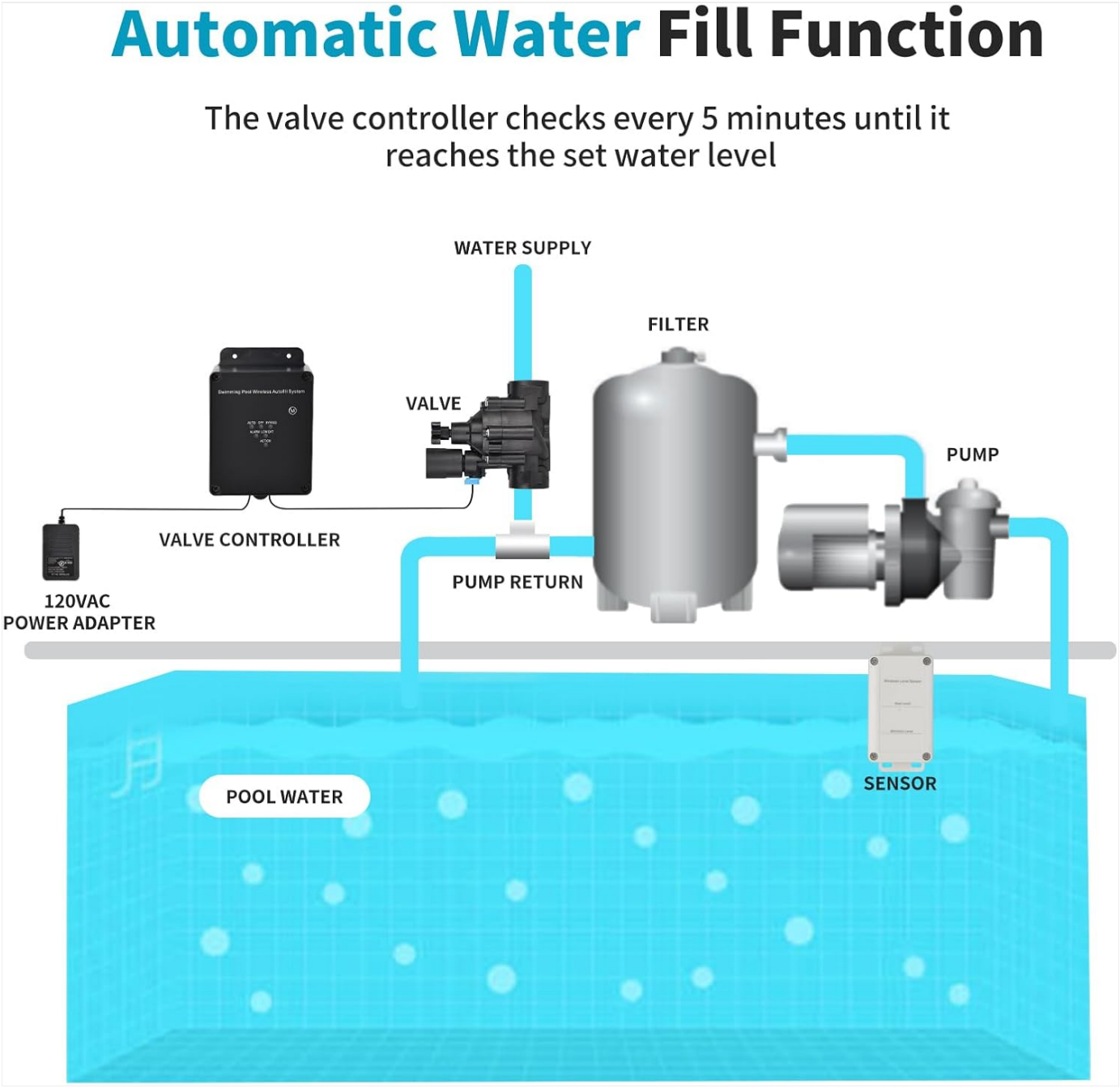


Figure 4.1: System connection diagram illustrating the setup of the valve controller, sensor, and valve with a pool's water supply and filtration system.



Figure 4.2: The wireless communication range between the sensor and controller can extend up to 500 feet, allowing flexible placement.



Figure 4.3: The water level sensor requires two AAA batteries for operation. Ensure they are correctly inserted.

5. Operating Modes

The valve controller offers three distinct operating modes:

- **Auto Mode:** In this mode, the system automatically monitors the water level. When the water level drops below the preset minimum, the valve controller opens the automatic valve to refill water. The controller checks the water level every 5 minutes and closes the valve once the optimal level is reached. If the water level is between the lowest and highest set points, the valve remains unchanged.
- **Off Mode:** This mode keeps the automatic valve closed, preventing any water refilling.
- **Bypass Mode:** In Bypass Mode, the automatic valve remains continuously open, allowing for constant water flow.



Figure 5.1: Visual representation of the Automatic, Close, and Bypass operating modes for the water level control system.

6. Status Indication Function

The controller features several indicator lights to provide operational feedback:

- **Alarm Light:** This light illuminates if the valve controller does not receive a signal from the water level sensor for 10 consecutive minutes. In this situation, the controller will automatically close the valve to prevent potential issues.
- **Low BAT Indicator Light:** This light alerts you when the battery in the wireless water level sensor is low and requires replacement.
- **Action Light:** This light indicates the current status of the automatic valve. When the valve is open, the action light will be on.



Figure 6.1: Description of the indicator lights on the valve controller, including Alarm, Low BAT, and Action lights.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your system:

- **Battery Replacement:** The water level sensor requires two AAA batteries. When the 'Low BAT' indicator light on the controller illuminates, replace the sensor batteries promptly. Depending on usage and battery type, batteries may need replacement every few months.
- **Cleaning:** Periodically clean the water level sensor to remove any debris, algae, or mineral buildup that could

interfere with accurate readings. Use a soft cloth and mild cleaning solution.

- **Inspect Connections:** Regularly check all cable connections for tightness and ensure waterproof connectors are properly sealed to prevent water ingress.
- **Valve Inspection:** Inspect the automatic valve for any signs of leakage or obstruction. Ensure it opens and closes smoothly.

8. Troubleshooting

If you encounter issues with your Zuomeng Wireless Automatic Pool Water Level Control System, refer to the following common problems and solutions:

- **System Not Filling Water:**
  - Check if the controller is in 'Off Mode'. Switch to 'Auto Mode'.
  - Verify the water level sensor batteries are not low. Replace if necessary.
  - Ensure the water level sensor is properly paired with the controller. Refer to pairing instructions.
  - Check for any obstructions in the automatic valve or water supply line.
- **Alarm Light On:**
  - This indicates no signal from the water level sensor for 10 minutes.
  - Check the sensor batteries and replace if low.
  - Ensure the sensor and controller are within the 500ft wireless range and there are no significant obstructions.
  - Re-pair the sensor and controller if connection is lost.
- **Low BAT Indicator On:**
  - The water level sensor batteries are low. Replace the two AAA batteries in the sensor.
- **Controller Not Responding / Died:**
  - Ensure the power adapter is securely connected and receiving power.
  - If the unit remains unresponsive, contact customer support.
- **Sensor Not Pairing:**
  - Ensure fresh AAA batteries are installed in the sensor.
  - Follow the specific pairing procedure outlined in your quick start guide.
  - Ensure the sensor and controller are in close proximity during the pairing process.

9. Warranty and Support

For warranty information, technical assistance, or customer support, please refer to the contact details provided in your product packaging or visit the official Zuomeng website. Please have your model number (ZM-115) and purchase information ready when contacting support.

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