MOES Smart Dual Pump Watering System

MOES Smart Dual Pump Watering System User Manual

Model: Smart Dual Pump Watering System

1. Introduction

The MOES Smart Dual Pump Watering System is an advanced automatic micro-drip irrigation solution designed to provide precise and convenient watering for your plants. Featuring a dual pump system, Wi-Fi connectivity, and smart app control, it offers flexible scheduling and monitoring capabilities for various plant types in homes, offices, and gardens.

2. Package Contents

Please verify that all components are present in your package:

- Watering device: 1
- Product Manual: 1
- Plug: 2
- Drip irrigation head: 8
- Capillary tube: 10
- Spray head: 2
- Filter: 2
- Fixed seat: 10
- Tee connector: 1
- Pendant: 1
- Solar panel: 1 (optional, if included in your kit)
- Inspection certificate: 1

3. Specifications

Feature	Detail
Product Name	Automatic Watering Device
Material	ABS

Supply Voltage	5.0-6.0V
Lithium Battery Capacity	2600 mAh (1 Lithium Ion battery included)
Pump Water Supply	550ml/min
Product Size	110 x 110 x 40.5mm
Working Environment	Normal Temperature
Charging Method	USB Charging
Solar Panel Output Power	3.3W (optional)
Special Feature	Programmable
Style	Auto, Automatic, Indoor, Outdoor

4. Setup Guide

4.1 Physical Installation

1. **Prepare the Water Source:** Place a water container (e.g., bucket, bottle) near your plants. The system has no restrictions on the water container type.
2. **Connect Tubing:** Cut the capillary tube to the desired lengths. Connect one end of the tube to the watering device's pump outlet.
3. **Install Drip Heads/Spray Heads:** Attach the drip irrigation heads or spray heads to the other end of the capillary tubes. Use the Tee connectors to create branches for multiple plants if needed.
4. **Position Heads:** Insert the drip heads into the soil near the base of each plant or position spray heads for broader coverage. Use fixed seats to secure the tubing.
5. **Place Filter:** Ensure the filter is attached to the intake tube that will be submerged in your water container to prevent debris from entering the pump.
6. **Power On:** Connect the device to power using the provided USB cable. If you have the solar panel kit, ensure it is positioned to receive adequate sunlight for charging.

4.2 App Connection (Tuya Smart App)

1. **Download App:** Download the "Tuya Smart" app from your smartphone's app store (iOS or Android).
2. **Register/Login:** Open the app and register a new account or log in with an existing one.
3. **Add Device:** Tap the "+" icon in the top right corner of the app to add a new device.
4. **Select Device Type:** Follow the in-app instructions to select the correct device category (e.g., "Smart Watering" or "Irrigation Controller").
5. **Pairing Mode:** Ensure your watering device is in pairing mode (refer to the device's display or manual for specific instructions, usually indicated by a blinking Wi-Fi icon).
6. **Connect to Wi-Fi:** Enter your Wi-Fi network credentials (2.4GHz network required).
7. **Complete Setup:** Once connected, the device will appear in your app. You can then rename it and begin configuring settings.



This image illustrates the MOES Smart Dual Pump Watering System in use. The main white control unit, featuring a digital display, is shown connected via a black tube to a potted plant. Adjacent to the plant, a smartphone displays the system's mobile application interface, demonstrating remote control capabilities. The device's screen shows various indicators such as battery status, Wi-Fi connectivity, and environmental readings.

5. Operating Instructions

5.1 Dual Pump Functionality

The system features two independent water pump systems, allowing you to control watering for different groups of plants separately or simultaneously. This provides flexibility for varying water requirements. You can choose to operate Pump A, Pump B, or both (A+B) via the app or device controls.

5.2 Tuya Smart App Control

- **Remote Control:** Manage your watering system from anywhere using the Tuya Smart App.
- **Scheduling:** Set up watering schedules with the 5+1+1 weekly programmable mode. This allows for flexible timer control with timing intervals. You can configure up to 4 periods daily.

- **Manual Irrigation:** Initiate watering instantly through the app for immediate needs.
- **Water Alert:** Receive notifications in the app if the water level in your container is low, ensuring timely refills.

5.3 Voice Control Integration

The MOES Smart Dual Pump Watering System is compatible with Amazon Alexa and Google Home. Once integrated, you can use simple voice commands to control your watering system, such as "Alexa, turn on the plant watering" or "Hey Google, start watering Pump A."

5.4 LCD Screen Display

The device's LCD screen provides real-time information, including:

- Battery level
- Wi-Fi connection status
- Current watering status (e.g., pump active, schedule running)
- Weather display and outdoor humidity (updates 3-4 minutes after connection)

6. Maintenance

- **Filter Cleaning:** Regularly check and clean the water filter at the intake tube to prevent blockages and ensure optimal pump performance.
- **Tubing Inspection:** Periodically inspect the capillary tubes and drip heads for any clogs, kinks, or damage. Clean or replace as necessary.
- **Device Cleaning:** Wipe the main unit with a soft, dry cloth. Avoid using abrasive cleaners or submerging the device in water.
- **Battery Life:** The internal lithium battery has a standby time of up to 4-5 days. Recharge via USB or ensure the optional solar panel receives sufficient sunlight for continuous operation.

7. Troubleshooting

7.1 No Water Dispensed

- **Check Water Level:** Ensure the water container has sufficient water. The app will provide a low water alert.
- **Inspect Tubing:** Look for kinks, clogs, or disconnections in the capillary tubes and drip heads.
- **Clean Filter:** A dirty filter can restrict water flow. Clean it thoroughly.
- **Pump Operation:** Verify that the pump is running. Listen for the pump sound or check the app status.

7.2 Device Not Connecting to Wi-Fi

- **Wi-Fi Band:** Ensure your Wi-Fi network is 2.4GHz. The device does not support 5GHz networks.
- **Signal Strength:** Place the device closer to your Wi-Fi router to improve signal strength.
- **Re-enter Password:** Double-check that you have entered the correct Wi-Fi password in the app.
- **Reset Device:** Refer to the device's specific instructions for how to reset it to pairing mode.

7.3 Inaccurate Scheduling/Timing

- **App Settings:** Verify that the schedule settings in the Tuya Smart App are correctly configured (start times, durations, days).
- **Time Zone:** Ensure your app's time zone matches your local time zone.

- **Device Sync:** Confirm the device is properly synced with the app. A stable Wi-Fi connection is crucial.

8. Warranty and Support

For warranty information, technical support, or service inquiries, please contact MOES customer support through the official website or your purchase platform. Please have your product model and purchase details ready when contacting support.
Manufacturer: Hangzhou Tuya Information Technology Co., Ltd

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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