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moistenland 43217-15092

moistenland Automatic Drip Irrigation System

User Manual - Model: 43217-15092

1. INTRODUCTION

Thank you for choosing the moistureland Automatic Drip Irrigation System. This DIY kit is designed to provide consistent and automated watering for your indoor potted plants, ensuring they remain healthy even when you are away. Featuring a programmable timer and flexible power options (USB or batteries), this system offers a convenient and efficient solution for plant care.



Figure 1.1: The moistenland Automatic Drip Irrigation System in an outdoor setting, highlighting its easy installation, hands-free operation, timed dripping, and compact design.

Key features include:

- Programmable watering schedules
- Automatic drip irrigation for precise water delivery
- USB power operation or battery power for flexibility
- Suitable for vacation plant watering with 30-day programming

2. SETUP AND ASSEMBLY

2.1. Package Contents

Before beginning assembly, please verify that all components are present:



Figure 2.1: All components included in the moistenland Automatic Drip Irrigation System kit.

- Main Device (Control Unit with Pump)
- Placing Stand
- USB Cable
- 33ft Tube (Hose)
- Drippers (Watering Stakes)
- Cross Joints
- T Joints
- Tube Ends
- Filter

2.2. Assembly Steps

Follow these steps to set up your drip irrigation system:

1. **Prepare the Main Device:** Place the main device on a stable surface or use the provided placing stand to hang it over your water reservoir (e.g., a bucket or large container). Ensure the water inlet tube reaches the bottom of your reservoir.

2. **Measure and Cut Tubing:** Determine the length of tubing needed to reach each plant from the main device. Measure carefully and cut the 33ft tube into appropriate segments using scissors.
3. **Connect Tubes and Joints:** Use the T-joints and cross-joints to create a network that connects the main device's water outlet to each of your potted plants. Ensure all connections are secure to prevent leaks.
4. **Install Drippers:** Attach a dripper (watering stake) to the end of each tube segment leading to a plant. Insert the dripper into the soil of each potted plant. For optimal watering, ensure the dripper is placed near the plant's roots.
5. **Power the Device:** Insert 4 AA batteries into the battery compartment or connect the USB cable to a 5V USB power source.

How to Use?



Measure the tube you need



Cut off the tube



Attach the tubes with joints



Place the watering stakes

Figure 2.2: Visual guide for assembling the drip irrigation system, showing measuring, cutting, connecting tubes, and placing drippers.

For best results, ensure your water reservoir is large enough to hold sufficient water for your desired watering duration and frequency.

3. OPERATING INSTRUCTIONS

3.1. Control Panel Overview

The main device features a control panel for setting watering parameters:



Watering Time

How long do you want to water?
Can be set 1-90 seconds & 2-5
minuts watering time.
(1-90=1-90 seconds, 2F=2 min,
3F=3 min, 5F=5 min)

Mode Switch

Manual/Automatic watering
switch

Interval Time

How often do you need to water?
Can be set 1-23 hours & 1-30
days interval time
0.1=1H, 0.5=5H,
1.0=10H...2.3=23H; 1=1D, 3=3D....
30=30D

Figure 3.1: Detailed view of the control panel, showing the status indicator, watering time display, mode switch, interval time display, USB port, and battery compartment.



- **Status Indicator:** Lights up to show operation status.
- **Watering Time (Left Display):** Sets how long the system waters during each cycle. Adjustable from 1-90 seconds or 2-5 minutes. (1-90 = 1-90 seconds, 2F=2 min, 3F=3 min, 5F=5 min)
- **Mode Switch (M Button):** Toggles between Manual and Automatic watering modes.
- **Interval Time (Right Display):** Sets how often the system waters. Adjustable from 1-23 hours or 1-30 days. (0.1=1H, 0.5=5H, 1.0=10H...2.3=23H; 1=1D, 3=3D....30=30D)
- **USB Port (5V):** For external power supply.
- **4*AA Batteries:** For portable power supply.

3.2. Setting Watering Schedule

Programming the system is straightforward. Here's an example:

Setting Only Takes 2 Steps

If your plants needs: Watering once every day at 9 o'clock, 30 seconds each time. Then you only have to be at 9 o'clock,

1. Set the  watering time to "30", 2.  Interval time to "1"



After 5 seconds, it will enter the first automatic watering mode after setting.

Figure 3.2: Illustration of setting the watering time and interval time on the control panel.

If your plants need watering once every day at 9 o'clock for 30 seconds each time:

1. Set the **Watering Time** to "30" (for 30 seconds).
2. Set the **Interval Time** to "1" (for 1 day).

After 5 seconds of setting, the system will automatically enter the first automatic watering mode based on your programmed schedule.

3.3. Watering Method

This system is designed for bottom watering, which allows water to penetrate deeply into the soil, delivering moisture directly to the plant roots. This method promotes healthier root development and reduces water evaporation.



Figure 3.3: Diagram illustrating how water penetrates deeply into the soil from the bottom, reaching the roots directly.

3.4. Recommended Watering Frequencies

The ideal watering frequency varies by plant type. The system allows for precise volume control to prevent under-watering or over-watering.

Precise Water Volume for Your Potted Plants

No more under-watering or over-watering to your plants.



I Should Water This Plant Every...



SUCCULENTS
10-15 Days



ALOE
10-15 Days



RUBBER PLANT
5-10 Days



SNAKE PLANT
10-15 Days



CALATHEA
5-10 Days



PEACE LILY
5-10 Days

Figure 3.4: A guide suggesting watering intervals for common indoor plants like succulents, aloe, rubber plants, snake plants, calathea, and peace lilies.

Consult the guide above for general recommendations, and adjust based on your specific plant needs, pot size, and environmental conditions.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your moistureland Automatic Drip Irrigation System.

- **Refill Water Reservoir:** Regularly check the water level in your reservoir and refill it as needed. The system will beep to warn you when the water is running out.
- **Clean the Filter:** Periodically remove and clean the filter located at the end of the water inlet tube to prevent clogs and ensure smooth water flow.
- **Check for Leaks:** Inspect all tube connections and joints regularly for any signs of leaks. Tighten connections if necessary.

- **Battery Replacement:** If using battery power, replace the 4 AA batteries when the device indicates low power or stops functioning.
- **Tube Cleaning:** If you notice reduced water flow, the tubes may need flushing or cleaning to remove mineral buildup or debris.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your automatic watering system.

Problem	Possible Cause	Solution
System does not pump water.	<ul style="list-style-type: none"> • Low water level in reservoir. • Clogged filter or tubes. • Power issue (dead batteries, USB not connected). • Incorrect programming. 	<ul style="list-style-type: none"> • Refill water reservoir. • Clean the filter and check tubes for blockages. • Replace batteries or ensure USB power is stable. • Verify watering time and interval settings.
Water leaks from connections.	Loose or improperly seated tube connections.	Ensure all T-joints, cross-joints, and dripper connections are firmly pushed onto the tubing.
System beeps continuously.	Water reservoir is empty or water level is critically low.	Refill the water reservoir. Press any key on the control panel to stop the beeping.
System turns on briefly then shuts off.	Insufficient power (low batteries or unstable USB connection).	Replace batteries with new ones or ensure the USB power source provides stable 5V.

6. SPECIFICATIONS

Feature	Detail
Brand	moistenland
Model Name	43217-15092
Control Type	Manual, Automated
Power Source	USB (5V), 4 x AA Batteries
Watering Time Setting	1-90 seconds, 2-5 minutes

Feature	Detail
Interval Time Setting	1-23 hours, 1-30 days
Hose Length	33 Feet
Item Weight	640 g
Package Dimensions	19.81 x 12.19 x 11.4 cm
UPC	674862984305

7. WARRANTY AND SUPPORT

Specific warranty details for the moistenland Automatic Drip Irrigation System are not provided in this manual. For warranty information, technical support, or any inquiries regarding your product, please contact the manufacturer directly through their official website or the retailer from whom you purchased the product. Always retain your proof of purchase for any warranty claims.