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› DELURA Smart Home Garden Automatic Irrigation System User Manual

DELURA Smart Irrigation Controller

DELURA Smart Home Garden Automatic Irrigation System User Manual





Figure 0: The DELURA Smart Home Garden Automatic Irrigation System Controller.

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DELURA Smart Home Garden Automatic Irrigation System. This device allows for intelligent control of your garden watering, ensuring efficient and automated irrigation tailored to your plants' needs.

Please read this manual carefully before using the product to ensure correct operation and to prevent any damage.

SAFETY INFORMATION

- Ensure all connections are secure to prevent leaks.
- Do not expose the device to extreme temperatures or direct sunlight for prolonged periods.
- Disconnect power before performing any maintenance or when the device is not in use for extended periods.
- This device is designed for outdoor use with water. Ensure proper electrical safety if using a power adapter in a damp environment.
- Keep out of reach of children.

PACKAGE CONTENTS

Please check that all components are present in your package:

- Smart Irrigation Controller Unit
- Copper Connector (1/2" internal thread)
- Connector (3/4" internal thread)
- 5V Power Adapter (if included in your specific package)
- Quick Fittings for Pipe Fittings (if included in your specific package)

Applicable

International standard inch external thread washing machine



Not applicable

One-piece screwless faucets such as old-fashioned faucets/kitchen/basin faucets



Figure 1: Exploded view showing the components of the DELURA Smart Irrigation Controller.

The DELURA Smart Irrigation Controller consists of several key components:

1. **Movable Cover:** Protects the top connection point.
2. **Copper Connector:** Features a 1/2" internal thread for connecting to a faucet.
3. **Connector:** Features a 3/4" internal thread for broader faucet compatibility.
4. **Rain Sensor Tank:** Designed to detect rainfall, preventing unnecessary watering and conserving water.
5. **Two-color Indicator:** Provides visual feedback on the device's status (e.g., offline, pairing, connected, power).
6. **Manual Power Button:** Used for manual operation and initiating the pairing process.
7. **5V Power Adapter Connection:** Port for connecting the external power supply.
8. **Quick Fittings for Pipe Fittings:** Allows for easy and secure connection to your irrigation pipes.

SETUP AND INSTALLATION

1. Faucet Compatibility

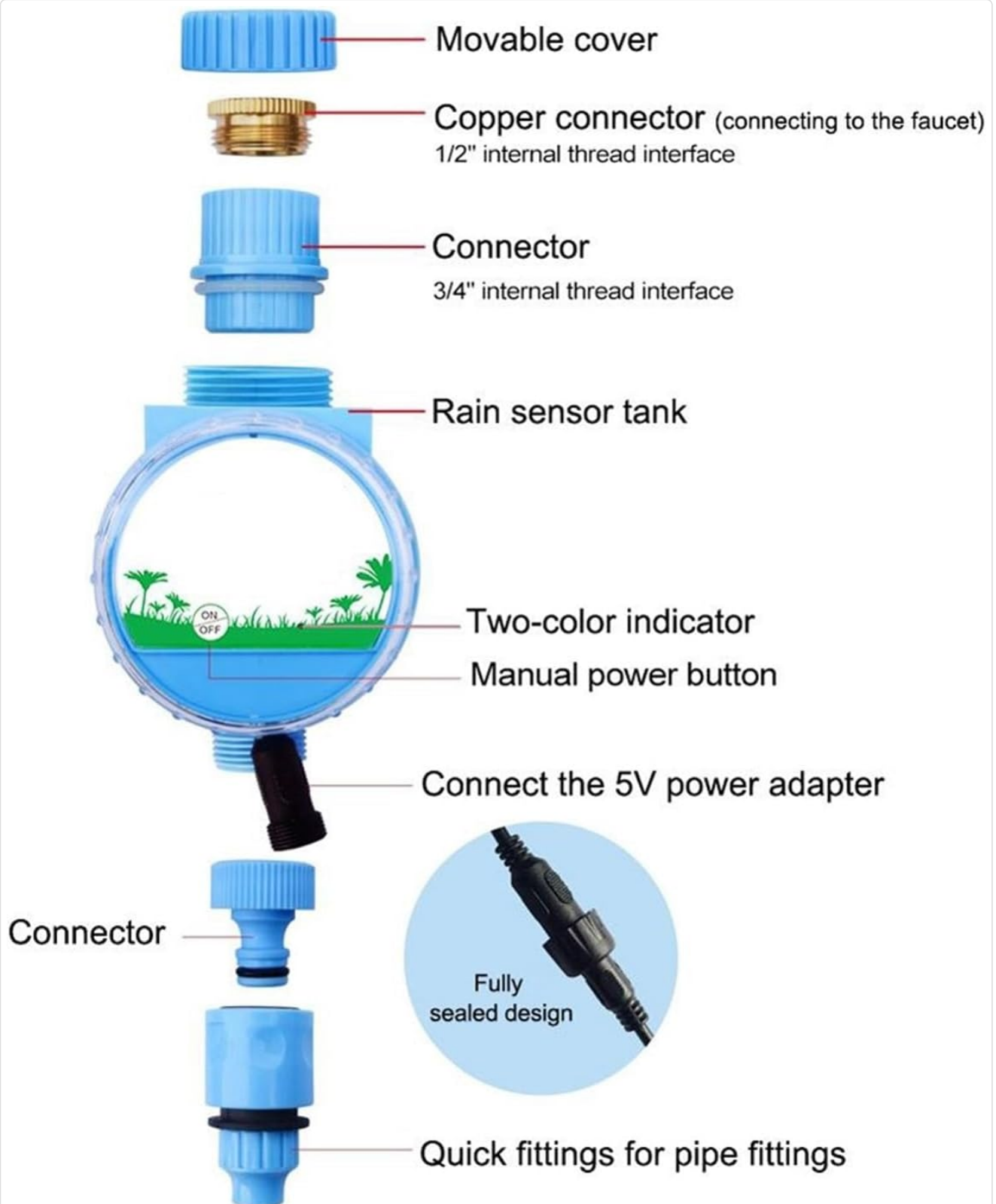


Figure 2: Illustrations showing compatible and incompatible faucet types.

Before installation, ensure your outdoor faucet is compatible with the irrigation controller. The device is designed for international standard inch external thread washing machine faucets. It is **not compatible** with one-piece screwless faucets or typical kitchen/basin faucets.

2. Connecting to Faucet

1. Screw the appropriate connector (either the 1/2" copper or 3/4" plastic connector) onto your outdoor faucet. Ensure a snug fit.

2. Attach the main irrigation controller unit to the connector, twisting until it is securely fastened. Ensure a tight seal to prevent leaks.

3. Connecting Irrigation Pipes

Connect your irrigation pipes (e.g., drip lines, sprinkler hoses) to the quick fittings located at the bottom of the controller. Ensure all pipe connections are secure and free from leaks.



Figure 3: Overview of the DELURA Smart Irrigation System setup, illustrating connections to a faucet and irrigation components.

4. Power Connection

Connect the 5V power adapter to the designated power port on the controller. Ensure the connection is fully sealed and protected from water if using outdoors. The blue power indicator light will illuminate.

5. App Pairing

1. Download the Tuya Smart app (or a compatible smart home app) from your smartphone's app store.
2. Open the app and create an account or log in if you already have one.
3. On the controller, press and hold the manual power button for 5 seconds to enter the pairing state. The red indicator light will begin to flash.
4. In the app, tap "Add Device" or "+" icon, then select the irrigation controller from the list of available devices or allow the app to auto-discover it.

5. Follow the on-screen instructions in the app to complete the pairing process. Once successfully paired, the red indicator light will stop flashing and turn off.

Set the water outlet freely

Click "add configuration" in the APP to configure/manually turn on the key to turn on the water outlet



Manual power button

Press and hold the power button for 5 seconds to enter the pairing state

Tap the power button once to turn on the water outlet and then press to turn off the water outlet

Two-color indicator

The indicator light (red) flashes——The device is offline, looking for (configuring) a WIFI network.

The indicator light changes from flashing to off——The device is connected normally, and the device is normal.

Power indicator light——Blue is the power status light (long on to power on, and off to power off).

Figure 4: Detailed view of the controller's manual power button and two-color indicator, illustrating pairing and status.

OPERATING INSTRUCTIONS

1. Automatic Irrigation via App

Once your DELURA Smart Irrigation Controller is connected to the app, you can configure various automatic irrigation parameters:

- **Irrigation Frequency:** Define how often your plants are watered (e.g., daily, every other day, specific days of the week).
- **Single Irrigation Time:** Set the duration for each individual watering cycle (e.g., 10 minutes, 30 minutes).
- **Timed Irrigation:** Schedule specific start and end times for watering periods.

The system's intelligent scheduling capabilities allow for unmanned watering, providing convenience and peace of mind even when you are away from home.



Figure 5: The DELURA Smart Irrigation Controller in operation, managed through a smartphone application.

2. Manual Control

You can manually control the water outlet directly from the device without using the app:

- Tap the manual power button once to turn on the water outlet.
- Tap the manual power button again to turn off the water outlet.

3. Indicator Lights

Understand the status of your device through its indicator lights:

- **Red Indicator Light Flashes:** The device is offline, not connected to Wi-Fi, or is in pairing mode.
- **Red Indicator Light Changes from Flashing to Off:** The device has successfully connected to the Wi-Fi network and is operating normally.
- **Blue Power Indicator Light (Long On):** Indicates that the device is powered on.
- **Blue Power Indicator Light (Off):** Indicates that the device is powered off.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your irrigation system:

- **Cleaning:** Periodically clean the exterior of the controller with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Filter Check:** Regularly inspect the inlet filter (if present) for any accumulated debris. Clean the filter as needed to maintain proper water flow and prevent blockages.
- **Winterization:** In regions with freezing temperatures, it is crucial to disconnect the controller from the faucet and store it indoors during the winter months to prevent damage from freezing water. Drain any remaining water from the unit.
- **Rain Sensor Tank:** Ensure the rain sensor tank is kept clean and free of obstructions for accurate rainfall detection.

TROUBLESHOOTING

If you encounter issues with your DELURA Smart Irrigation System, refer to the following troubleshooting guide:

- **No Water Flow:**
 - Ensure the outdoor faucet is fully open.
 - Verify that the controller is powered on and properly connected to the app.
 - Check the irrigation schedule in the app to confirm a watering cycle is active.
 - Inspect the inlet filter and pipes for any blockages or debris.
- **Device Not Connecting to App (Wi-Fi Issues):**
 - Confirm your Wi-Fi network is 2.4GHz, as most smart devices require this frequency.
 - Check if the red indicator light is flashing, indicating it's in pairing mode. If not, re-enter pairing mode.
 - Move the device closer to your Wi-Fi router to improve signal strength.
 - Restart the controller by disconnecting and reconnecting power, and also restart your Wi-Fi router.
- **Leaks from Connections:**
 - Tighten all connections, including the faucet, controller, and pipe fittings.
 - Check for damaged O-rings or seals and replace them if necessary.
- **Rain Sensor Not Working:**
 - Ensure the rain sensor tank is clean and free of any debris or obstructions.
 - Verify the rain delay settings within the app.

SPECIFICATIONS

- **Brand:** DELURA
- **Model:** Smart Irrigation Controller
- **ASIN:** B0CFYCK829
- **Power Input:** 5V DC (via external power adapter)
- **Faucet Compatibility:** 1/2" and 3/4" standard external thread
- **Connectivity:** Wi-Fi (2.4GHz, compatible with Tuya Smart app)
- **Key Features:** Automatic scheduling, manual control, rain sensing, smartphone app control.

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the specific documentation provided with your purchase. Warranty terms may vary by region and retailer. You can also contact DELURA customer service directly for assistance.

Manufacturer: DELURA

Product First Available: August 17, 2023

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question