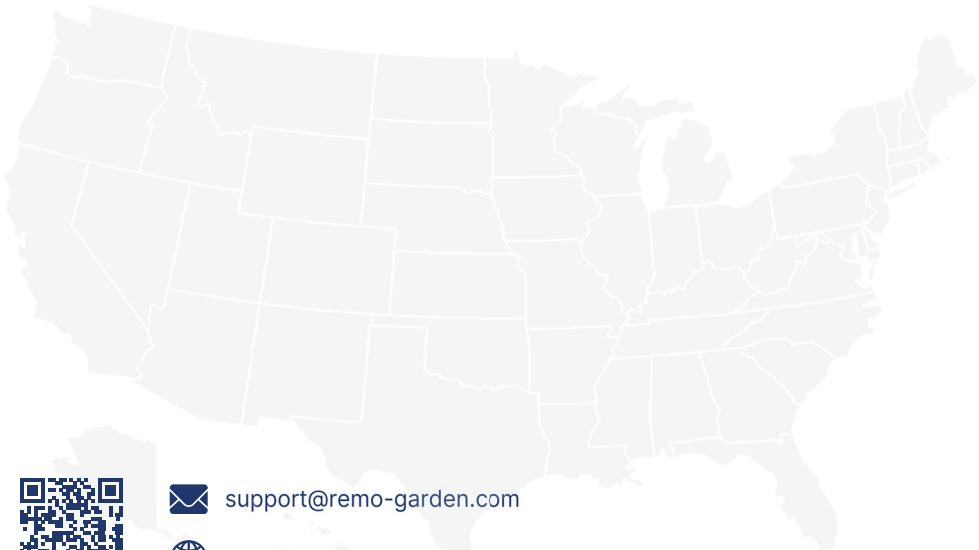


support@remo-garden.com

http://support.remo-garden.com

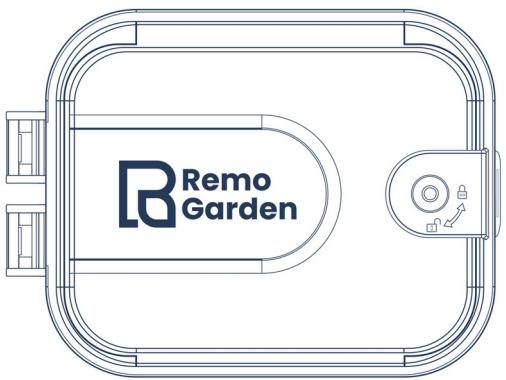
If you have any questions or run into issues while using your device, we're here to help!
Simply email us at support@remo-garden.com with a detailed description of your concern.
Our dedicated technical support team will work to resolve it for you as soon as possible.

Remo Garden® PRO

Outdoor Smart Sprinkler Controller

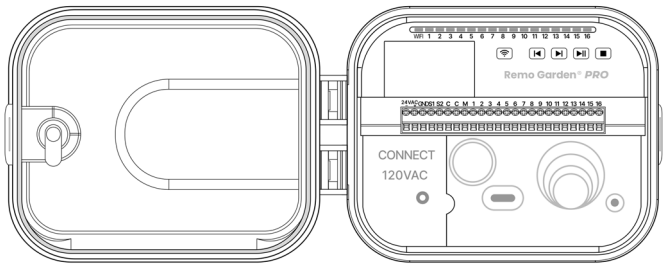
User Manual

- Remote Control
- 50% Water Saving
- Smart Fault Detection
- Surge Protection
- Quick & Easy Installation

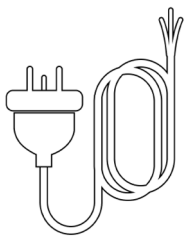


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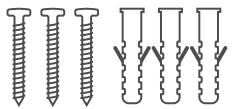
What's In the Box?



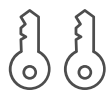
Remo Garden PRO



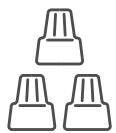
Power Cord



Wall Screws with Anchors

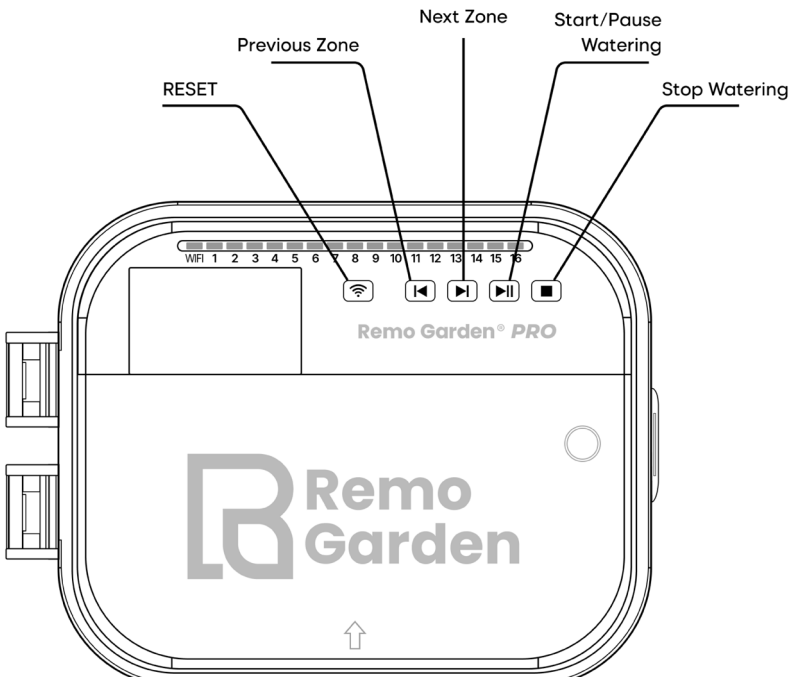


Keys



Wire Caps

Product Diagram



Select a Specific Zone

Press ⏮ ⏭ to select the specific zone.

Start/Pause Watering

Press ⏯ to start/pause watering anytime.

Stop Watering

Press ⏹ to exit the current watering state.

Reset the Controller

When adding a device or updating its Wi-Fi settings while it is offline, press and hold the "RESET" button 📶 for 5 seconds. Then, follow the app's prompts to complete the remaining steps.

What You'll Need



Wi-Fi Access
(2.4GHz)



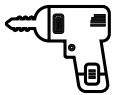
Smartphone
or Tablet



Cross
Screwdriver



Hammer
(Drywall Installs)



Drill and Drill Bit
(Drywall Installs)

Electrical Specifications

Input	120VAC, 60Hz
Output	24VAC, 1000mA

Controller Ratings

Input/Output	24VAC, 1000mA, 60Hz

Controller Installation

Installing the Remo Garden PRO controller is simple.

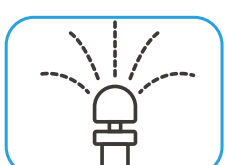
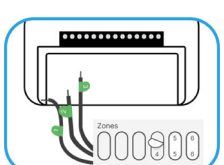
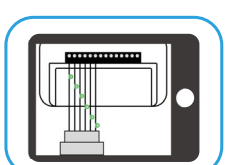
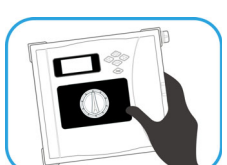
Please scan the QR code below or manually enter the web address provided beneath it to access the installation tutorial video.

You may also refer to the latter section of this manual for detailed installation instructions.

(remo-garden.com/pro/install)

Remove Old Controller

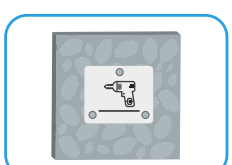
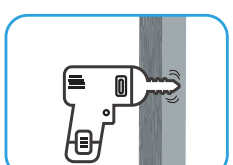
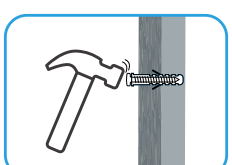
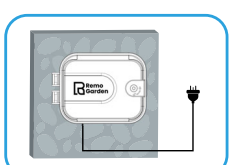
1. Run a test cycle on the old controller to ensure the sprinklers and valves are working correctly.
2. Turn off the power, tag each wire with label paper for easier identification.
3. Take a photo of the current wiring as a reference, and disconnect each wire.
4. Remove the old controller from the wall.

Install New Controller

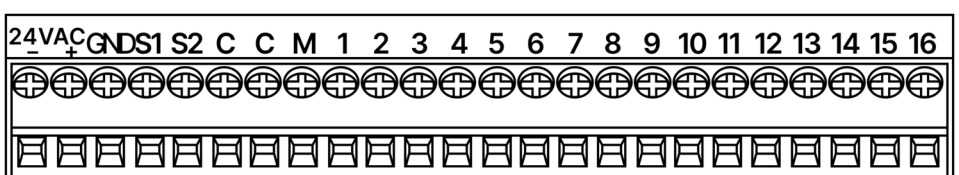
1. Mark the installation points using the provided template, then drill anchor holes at the marked spots with the appropriate drill bit.
2. Insert wall anchors and gently tap them into place with a hammer until secure.
3. Secure the controller to the wall using the provided screws.
4. Connect the labeled wires to their corresponding terminals on the controller.
5. Establish power supply to the controller.

Notice: Prior to installation, verify Wi-Fi signal strength is adequate at the mounting location.

Connect Wires

1. Refer to the photo of your previous wiring to identify the common wire and zone wires.
2. Loosen the port screw by turning it counterclockwise until it reaches the bottom.
3. Insert the common wire into the **"Common" (C)** terminal, then turn it clockwise to secure the wire.
4. Connect each remaining wire to its corresponding numbered terminal, ensuring only one wire is attached to each terminal.
5. Gently tug each wire to confirm it is securely connected.



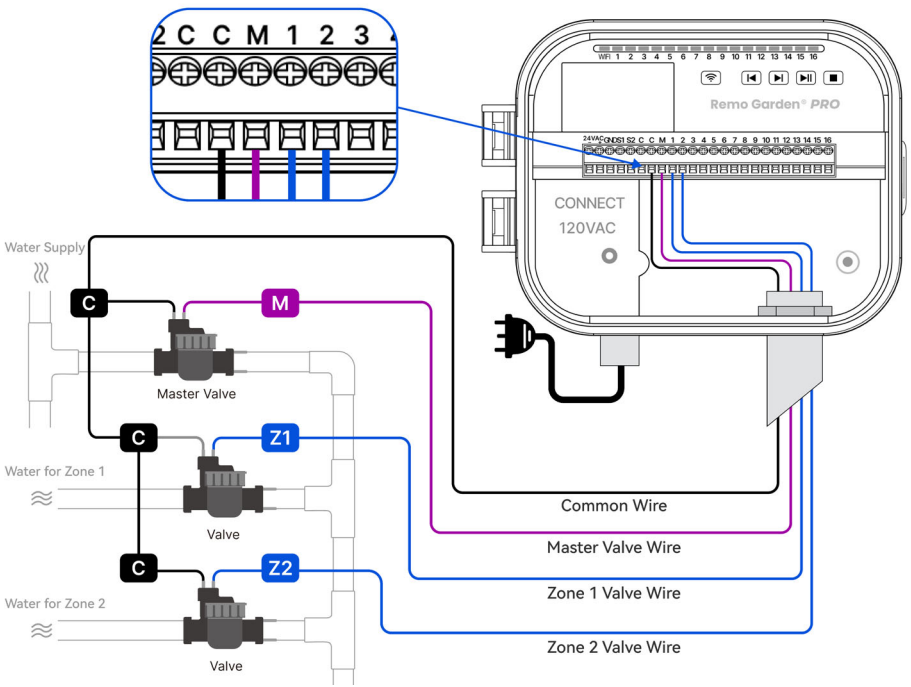
1. Common Wire:
Common wires are always in white; connect them to the **"C"** terminal.

2. 1- 16 Zone Wires:
Connect each pre-labeled zone wire to its corresponding port.

3. Master Valve/Pump Start Relay:
Master valve wires are often labeled **"M," "MV," "P"** or **"MV/P"**. Connect it to the **"M"** terminal if available.

Once connected, open Remo Garden app. Navigate to **Settings > Controller Settings > Advanced Wiring (M Terminal)**. Then, select **"Master Valve"** to enable the function.

Wiring Diagram



Sensor Wiring

1. Rain Sensor

Both normally closed & open rain sensors are compatible, wired or wireless. Connect them to the controller using the **"S1"** and **"C"** terminals.

2. Flow Sensor

For flow sensors, connect them to the **"S2"** and **"24VAC-"** terminals on the controller.

3. Soil Moisture Sensor

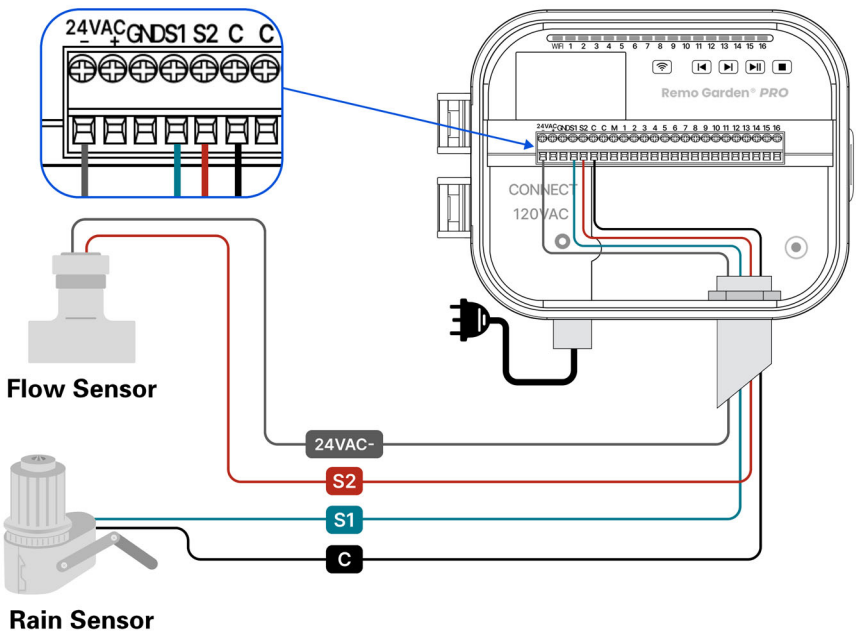
Connect a soil moisture sensor to the **"S1"** and **"C"** terminals on the controller.

Any sensor, after wiring, go to **Settings > Controller Settings > Sensor** in the app, and select the **"S"** terminal to activate it.

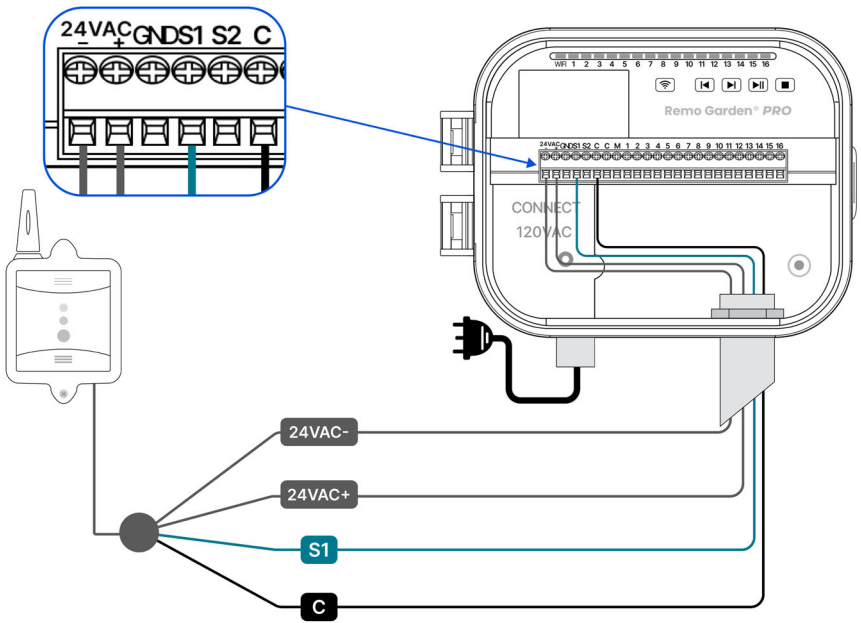
For more sensor content, scan the QR code below or visit remo-garden.com/pro/sensors.

(remo-garden.com/pro/sensors)

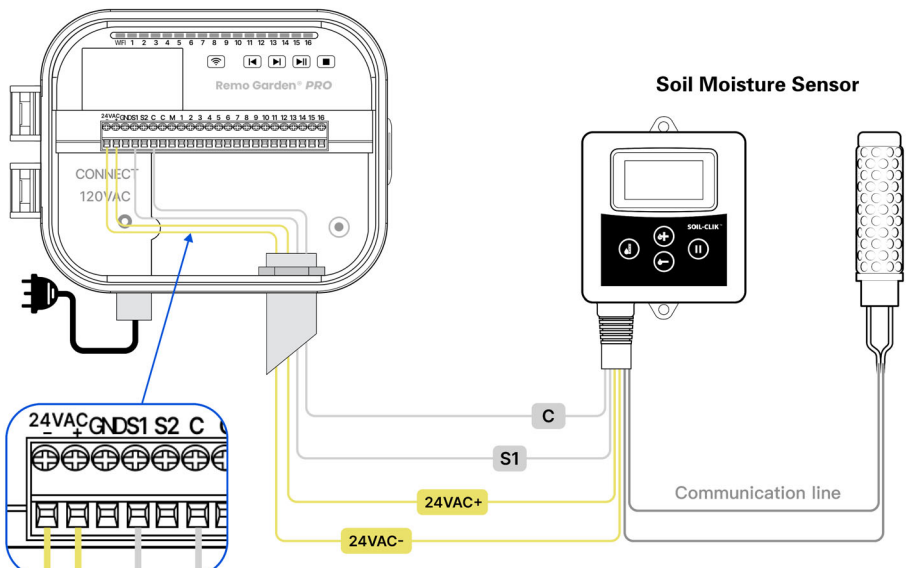
Wired Sensor Wiring



Wireless Rain Sensor Wiring



Soil Moisture Sensor Wiring

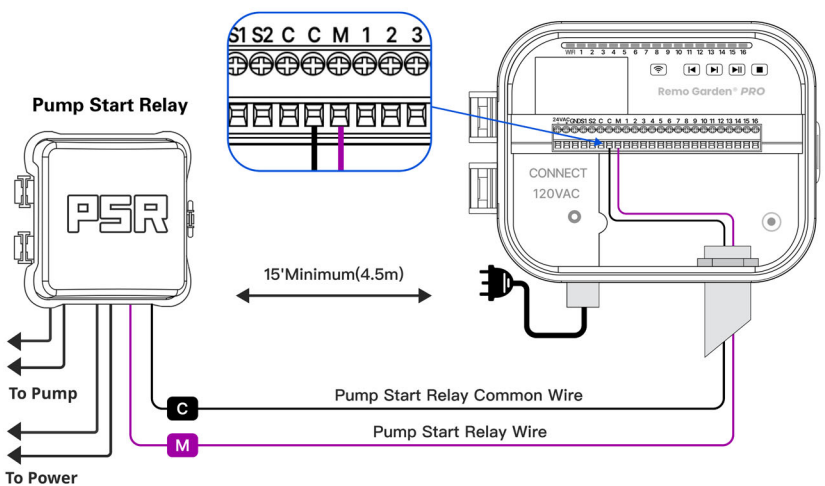


PSR Wiring

For pump-dependent sprinkler systems, Remo Garden PRO requires a normally open pump start relay (PSR). Connect the relay's leads to the controller's **"C"** and **"M"** terminals, then connect the relay to the pump.

In Remo Garden app, go to **Settings > Controller Settings > Advanced Wiring (M Terminal)** and select **"Well/Pump Start Relay."**

Notice: Never directly connect the water pump to the controller.

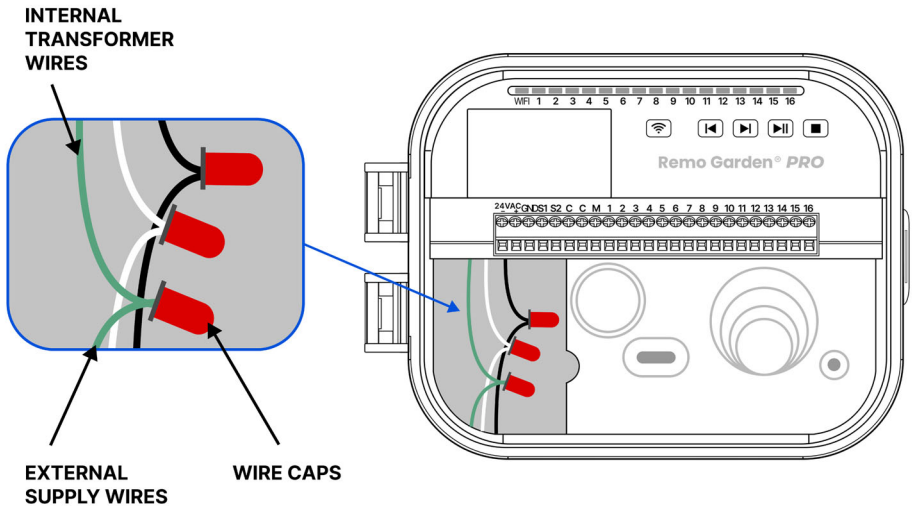


Connect Power

Remo Garden PRO includes a standard power cord. Simply connect it to the transformer's three wires: live, neutral, and ground.

1. Remove the cover from the wiring compartment at the bottom.
2. Feed the three power wires into the box.
3. Use wire caps to connect them to the internal wires.

WARNING: Turn off power before wiring. Electric shock may cause serious injury or death.



Power Wiring Connections 120VAC(US)
Black supply wire (live) to the black transformer wire
White supply wire (neutral) to the white transformer wire
Green supply wire (ground) to the green transformer wire

Download App

1. Find Remo Garden app on Apple App Store or Google Play, or scan the QR code below to download it.
2. Follow the in-app instructions to create an account.
3. Sign in with your account.

Download on the App Store

GET IT ON Google Play

Notice: Apple and the Apple logo are trademarks of Apple Inc. registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC.

Add New Controller

Remo Garden app will guide you step-by-step through adding and configuring your controller.

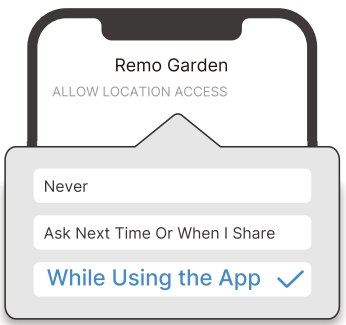
For more details, scan the QR codes below to watch the tutorial videos.

(remo-garden.com/pro/ios-adding)

(remo-garden.com/pro/android-adding)

iOS Adding

1. On your iPhone, open the **Control Center**.
2. Go to **Settings > Privacy & Security > Location Services**, turn on **Location Services**, and allow Remo Garden app to access your location.
3. Power on the controller and press the reset button for 5 seconds.



4. Keep your phone within 10 feet of the controller, then open Remo Garden app, scan for and select the controller, and name it.
5. Enter your 2.4GHz Wi-Fi details, or tap **"Get phone's Wi-Fi"** to automatically retrieve the network your phone is connected to.
6. Enter your address and select the nearest weather station to finish the setup.



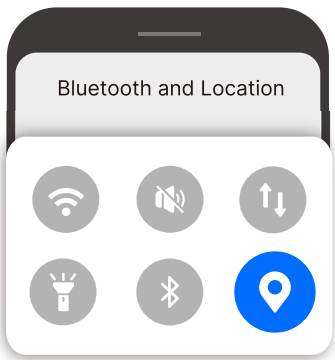


Android Adding

1. On your phone, open **Quick Settings** and **Location Services**.

2. Power on the controller and press the reset button for 5 seconds.

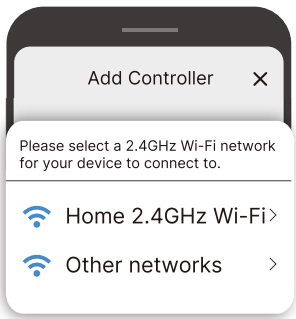
3. Keep your phone within 10 feet of the controller, then open Remo Garden app, scan for and select the controller, and name it.



4. Tap **"Switch Wi-Fi"**, select your home 2.4GHz Wi-Fi network, and enter the correct password to connect.

5. Enter your address and select the nearest weather station to finish the setup.

Notice: Programs will run as set even Wi-Fi connection is lost. However, to restore full functionality, controller must reconnect to network.





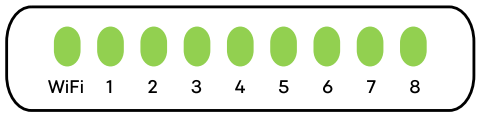
Continuous Improvement

Remo Garden PRO receives regular updates to add new features and improve your experience. As a result, some operations may differ slightly from the manual. For the most accurate guidance, always follow the in-app instructions and prompts.

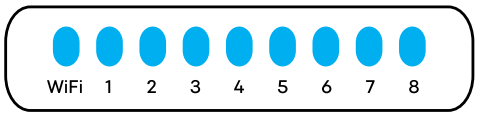
If you are unsure about the installation or set-up process, please scan the QR code below to access our guidance.

(support.remo-garden.com)

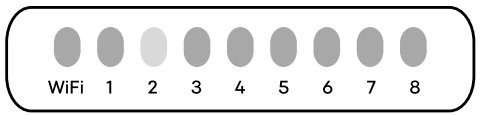
Normal Lights



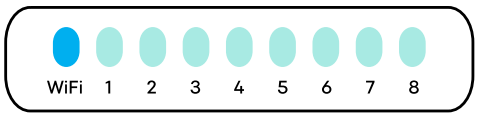
Waiting for Connection



Controller Activated (blue breathing)



Watering

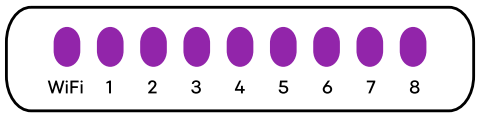


Firmware Updating

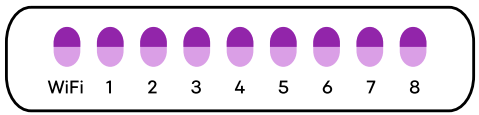
Network Error Lights

Slow flashing Fast flashing

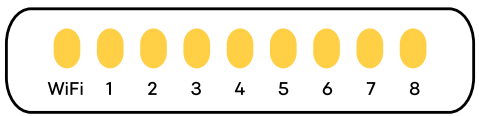
While Adding:



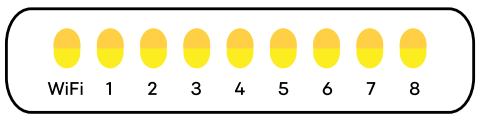
Connecting to Router



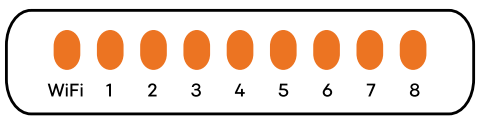
Router Connection Failed



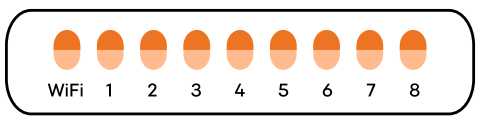
Connecting to Wi-Fi



Wi-Fi Connection Failed



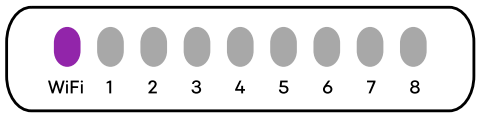
Connecting to Server



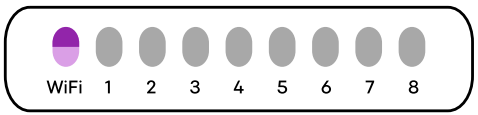
Server Connection Failed

Slow flashing Fast flashing

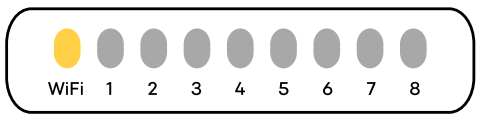
After Added:



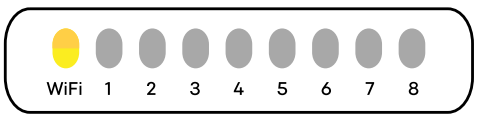
Connecting to Router



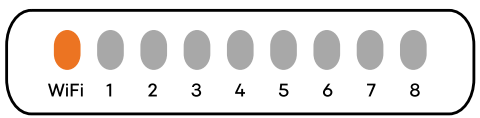
Router Connection Failed



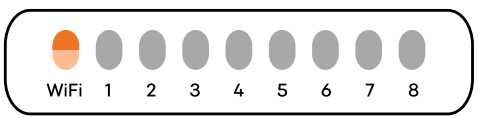
Connecting to Wi-Fi



Wi-Fi Connection Failed

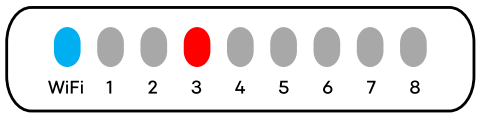


Connecting to Server

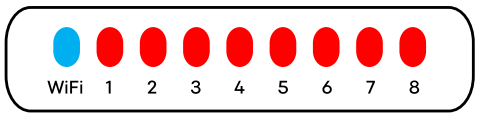


Server Connection Failed

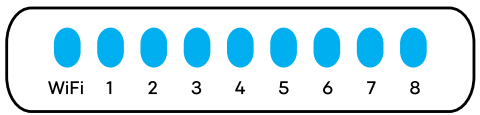
Hardware Error Lights



Zone Short Circuit



'M' Short Circuit



Light Failure (steady blue)

Network Error Solutions

Router Connection Failed

1. Power off the router, wait 30 seconds, then restart to refresh its status.
2. If an ad-blocker is enabled on your router, try disabling it to prevent connection interference.
3. Verify if other devices on the same Wi-Fi network are connecting normally. If other devices can't connect either, it may be a network issue - please contact your Internet Service Provider (ISP).

Server Connection Failed

1. Wait for 5 minutes and try connecting again.
2. If the issue persists, please contact our support team (support@remo-garden.com) with your device details for further troubleshooting.

Wi-Fi Connection Failed

1. Ensure your device is connected to a 2.4GHz Wi-Fi network.
2. Check if the correct Wi-Fi password has been entered.
3. Power off the router, wait 30 seconds, then restart.
4. Reset the controller and try adding the device again.
5. Move the router closer to the controller to reduce signal interference, then retry the above steps.

Hardware Error Solutions

Zone/'M' Short Circuit

1. Check the wiring for damaged cables, poor insulation, or moisture at connections.
2. Check the coil for burnout, moisture, or insulation aging.
3. Check the power supply for overvoltage or large fluctuations.

Light Failure

Power off the device for 5s and then restart it.

For detailed troubleshooting guides, please visit remo-garden.com /indicator. If the problem persists, please contact us at support@remo-garden.com with some pictures.

(remo-garden.com/indicator)

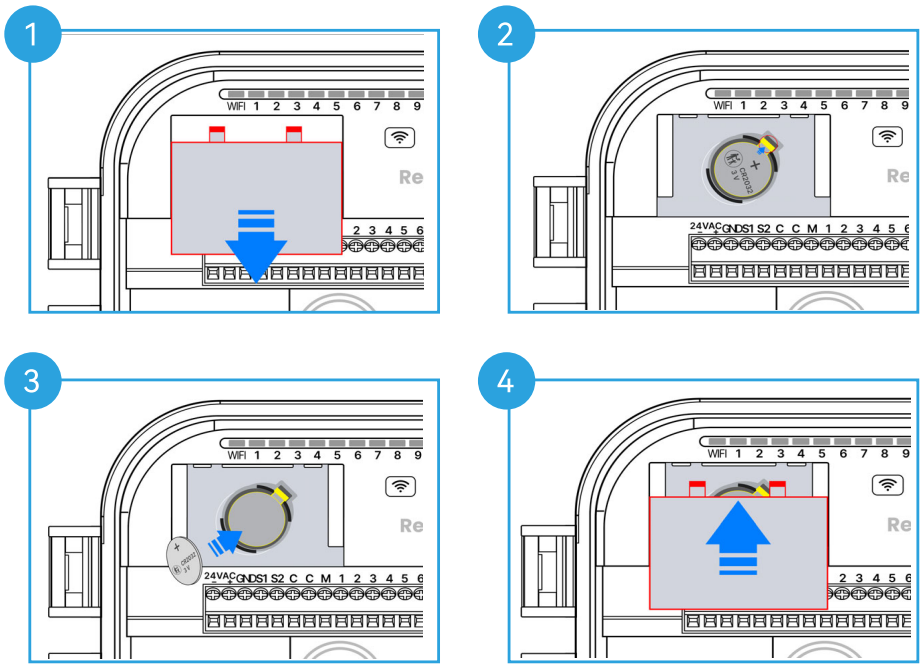
Battery Replace

Remo Garden PRO uses a built-in CR2032 (3V) button battery to keep the internal clock running during network outages, ensuring programs stay on track. The battery lasts up to 5 years.
When the battery is low, you'll get a notification in the app. Please replace it promptly.

Steps to Replace:

1. Open the outer case and slide the battery cover downward.
2. Push the metal clip outward to remove the old battery.
3. Insert a new CR2032 battery with the positive side facing up.
4. Slide the battery cover back up to close.

WARNING: Turn off the device before replacing the battery to avoid electric shock. Only use the recommended CR2032 (3V) battery.



Button Battery Warning

⚠WARNING

- **INGESTION HAZARD**: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



a) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
b) Even used batteries may cause severe injury or death.
c) Call a local poison control center for treatment information.
d) Battery type: CR2032.
e) Nominal battery voltage: 3V.
f) Non-rechargeable batteries are not to be recharged.
g) Do not force discharge, recharge, disassemble, heat above 60 °C or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
h) Ensure the batteries are installed correctly according to polarity (+ and -).

i) Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
j) Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.
k) Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.

WARNING: This product contains a lithium button/coin cell battery.
Keep coin cell batteries out of reach of children.

Swallowing may lead to serious or fatal injury in as little as 2 hours, due to chemical burns and potential perforation of the esophagus.

- Never allow children to replace coin cell batteries of any device.
- If you suspect your child has swallowed or inserted a coin cell battery, call the 24-hour Poison Control Center at 1-800-222-1222 (US) for immediate assistance.
- Regularly examine devices and make sure the battery compartment is correctly secured, e.g. that the screw or other mechanical fastener is tightened. Do not use if the compartment is not secure.
- Dispose of used coin cell batteries immediately and safely out of the reach of children. A battery can still be dangerous even when it can no longer operate the device.
- Inform others about the risks associated with coin cell batteries and how to
- keep their children safe.

FAQ

1. Activation email not received, what to do?

(1) Check your email inbox and spam/junk folders.
(2) Ensure your mailbox isn't full.
(3) If the issue persists after requesting a resend: Try registering with a different email address, or contact us at support@remo-garden.com for assistance.

2. Failed to add the controller after multiple attempts, how to proceed?

(1) Make sure that Location permissions have been granted.
(2) Try scanning the QR code or manually inputting the MAC address to add it.
(3) Ensure the controller is connected to a 2.4GHz Wi-Fi network and within the Wi-Fi coverage range.
(4) Ensure that the Wi-Fi password entered is correct.
(5) If an ad-blocker is enabled on your router, try disabling it to prevent connection interference.
(6) Close the app from the background and reboot the router, then try adding the device again.
(7) If the issue persists, contact the customer support team for help.

3. How to add and manage multiple controllers?

Go to the "Remo Garden" section in the top-left corner of the homepage to add new devices and easily switch between them for management.

4. How to share your controller with others?

Navigate to **Settings > Controller Settings > Device Access Management** to share your controller.

5. What type of Wi-Fi is compatible with Remo Garden PRO?

Remo Garden PRO is compatible exclusively with 2.4GHz Wi-Fi, which offers broader coverage and superior signal penetration.
If connection issues arise on a multi-band Wi-Fi, consider splitting the bands into separate networks, naming them differently, and connecting specifically to the 2.4GHz network.

6. What is Flex Smart Program?

(1) The Flex Smart Program customizes watering durations based on the specific attributes of each zone. The Flex Smart Program typically extends watering duration while reducing frequency. This methodology promotes robust root development, augments plant resistance to drought, and contributes to the flourishing growth of vegetation.

(2) Each zone in the Flex Smart Program operates independently, considering its unique attributes. This includes executing the program and skipping watering when saturation levels are sufficient. As a result, some zones may be irrigated while others may not within the same program, ensuring tailored irrigation based on individual zone needs.

(3) The newly created Flex Smart Program treats all zones as water-deficient and irrigates them until saturation during the first run. Hence, do not delete the Flex Smart Program casually.

7. Why doesn't the program execute?

(I) App Settings Check

1. Weather Skip Function
   Check the **History** page to see if any program was skipped due to weather conditions.

2. System Features
   Confirm if **Rain Delay** or **Standby Mode** is enabled. If so, disable these features and test the controller.

3. Rain Sensor Settings
   If no rain sensor is connected, ensure the **"S"** terminal is disabled in the app. Path: **Settings > Controller Settings > Sensor**.

(II) Component and Wiring Checks

1. Water Supply Check
   Ensure the water source is delivering water properly. If a master valve or pump is connected, manually open it and verify water flow.

2. Wiring Inspection
   Gently tug on all wires to check for loose connections. Verify that all terminal connections are secure. Inspect for any broken or exposed wires (open lines).

3. Nozzle and Valve Inspection
   Check nozzles or zone valves for blockages. If blockages are found, clean or replace the affected components.

4. Replace it promptly.
   Use the controller to run through all zones sequentially. If the controller light turns red for a specific zone, it indicates a short circuit in the solenoid valve for that zone. Please check for wiring, coil or power supply issue.

8. How to winterize my sprinkler system?

(1) Close the main valve and backflow prevention valve: Make sure to close the main valve and backflow prevention valve to prevent water from entering the system and causing freezing and damage.
(2) Set Remo Garden PRO to **"Standby"** mode: In the **"Settings"** screen, tap the **"Standby Mode"** option and adjust the standby duration according to your preferences. When the controller is in standby mode, it will not execute any irrigation programs, which helps reduce energy consumption and protect system components.
(3) Drain the pipes: To prevent water from freezing and expanding in the pipes, it is recommended to contact a local irrigation expert to perform this task. They can use appropriate methods to drain the pipes completely and ensure that water is removed.
(4) Isolate above-ground components: If the backflow preventer and valves are located above the ground, you can use insulation tape to wrap them and provide additional thermal insulation protection.

9. How to activate Flow Monitoring and get notified?

(1) After you connect the flow sensor to the controller, please go to **Settings > Controller Settings > Sensor** to enable the corresponding terminal.
(2) Go to **Settings > Events & Alerts > Alert Settings > Flow Meter** and click **"+"** to add monitoring.

10. How to activate the Valve Monitoring function and get alerts of high/low current?

(1) Go to **"Zones"** and select the zone you want to monitor. Turn on **"Valve Monitoring"** and run the **"Recalibrate"** process to get the exact amperage value of the solenoid valve in the selected zone. Set your preferred percentage value for high/low current warning.
(2) Go to **Settings > Events & Alerts > Alerts Settings > Solenoid Valve** and click **"+"** to add monitoring.

Remo Garden PRO does not require any rain or soil sensors to take full advantage of smart watering.

In fact, Remo Garden PRO acts as both soil and rain sensor by using our powerful software, numerous zone settings, and advanced weather forecasting to eliminate the need for external sensors (though you can certainly add one or both if you like!).

(3) When an abnormality is detected in the amperage value, you will receive a notification through the app as follows:
-- Open Line Error for Zone xx.
-- Low Current Alert for Zone xx.
-- Electrical Short Error for Zone xx.
-- High Current Alert for Zone xx.

FCC

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Warning:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

The FCC RF Exposure Information

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Remo Garden