



support@imolaza.com



<https://support.imolaza.com>

For any issues or questions regarding the use of this product, please contact our technical support team at support@imolaza.com with a detailed description of your problem. We will do our best to resolve it as soon as possible.



ImoLaza[®] ULTRA

Smart Sprinkler Controller Real-Time EvapoTranspiration Master

User Manual



App Control



Smart Watering



Save Money

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8. FCC Statement

1.1 Welcome!

Dear Valued Customer,

Welcome to the ImoLaza family!

It's a pleasure to welcome you as we lead the way in smart irrigation technology. At ImoLaza, we're dedicated to redefining the future of landscape management through innovation and efficiency.

Our advanced solutions are designed not only to enhance the care and appearance of your lawn but also to significantly reduce water consumption and promote sustainability.

Your decision to choose ImoLaza is highly appreciated, and we are committed to exceeding your expectations. Should you need any assistance or wish to share your insights, our dedicated support team is always ready to help.

Thank you for joining us in our journey to transform smart irrigation. Together, we can create a lasting impact.

Warm regards,

Ryan
CEO, ImoLaza

1.2 Contact Us

ImoLaza values every customer. For inquiries about your smart sprinkler controller, reach out to us anytime for assistance. Whether it's about delivery, product inquiries, suggestions, or any other matter, we're here to help.

1. Email: support@imolaza.com.

We also offer remote video calls for troubleshooting.

2. ImoLaza app: [Go to Settings > Customer Services](#).

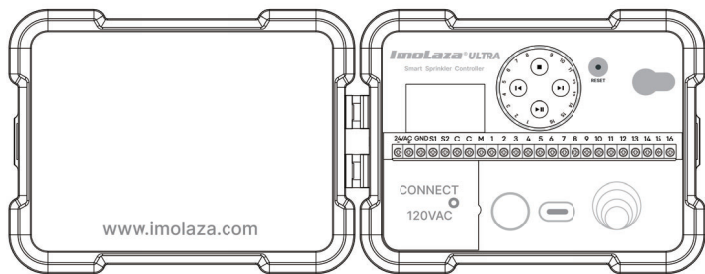
3. Official website: www.imolaza.com.

Or by scanning the QR code:

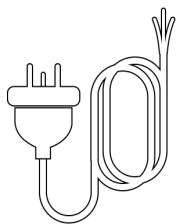


www.imolaza.com

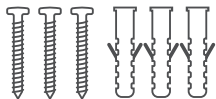
1.3 What's In the Box



ImoLaza ULTRA



Power Cord



Wall Screws
with Anchors



Door Keys



Wire Caps

1.4 What You'll Need



Wi-Fi Access
(2.4GHz)



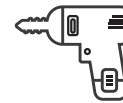
Smartphone
or Tablet



Cross
Screwdriver



Hammer
(Drywall Installs)

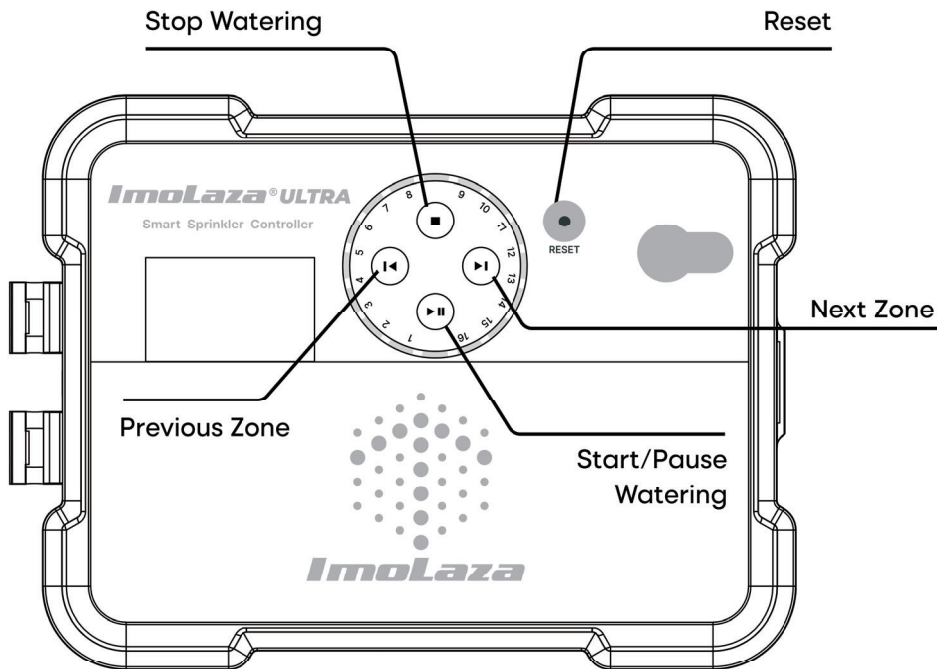


Drill and Drill Bit
(Drywall Installs)

Electrical Specifications

Input	120V AC 60Hz
Output	24V AC, 1000 mA

1.5 Product Diagram



Water a Specific Zone

Press   to select the specific zone, then press  to begin watering.

Start/Pause Watering

Press  to start/pause watering anytime.

Stop Watering

Press  to stop watering & exit the current watering state.

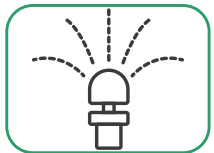
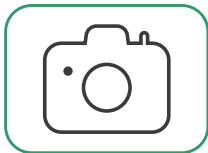
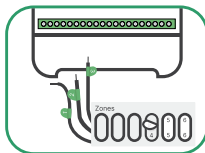
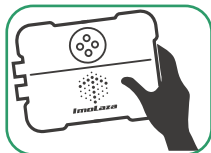
Reset the Controller

To add a device or update the Wi-Fi settings when the device is offline, press and hold the "RESET" button for 5 seconds, and then follow the instructions in the app to complete the process.

2.1 Remove Your Old Controller

1. Test the sprinklers using the old controller to ensure the irrigation system is functioning correctly;
2. Take a photo of the existing wiring to serve as a reference before the installation of the new controller;
3. Power down the old controller and disconnect all wires from both the controller and the power source. Ensure to affix corresponding labels to each wire for easy identification and seamless reconnection when installing the new controller;
4. Unmount the old controller from the wall.

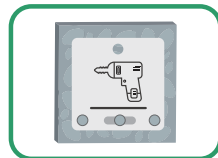
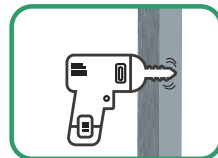
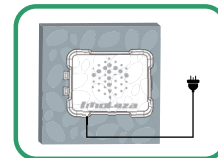
! Notice: Before removing the old controller, always turn off the power to prevent injury or fire damage.



2.2 Install the New Controller

1. Use the mounting template to accurately mark where the new controller will be installed;
2. Use a suitable drill bit to create holes at the marked spots, then insert anchors and secure them firmly with a hammer;
3. Insert the upper screw, slide the controller over the screw head, and proceed to insert & fasten the remaining screws;
4. Connect each wire labeled with the corresponding tag to the appropriate terminal on the controller;
5. Establish the power connection for seamless functionality.

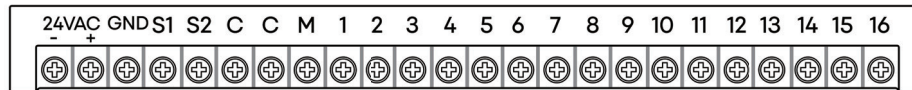
! Notice: Make sure to mount the new sprinkler controller within the range of the Wi-Fi network.



2.3 Connect Wires

Insert the wire and tighten the screw by turning it clockwise:

1. Attach the common wire to either "Common"(C) terminal;
2. Connect the remaining wires to the numbered zone terminals, ensuring that each terminal has only one wire;
3. If you have a master valve or a pump start relay, connect its wire to the "M" terminal.



1. Common Wire:

ImoLaza has 2 "C" terminals. You can connect the common wire to either of them.

2. Zone Wires:

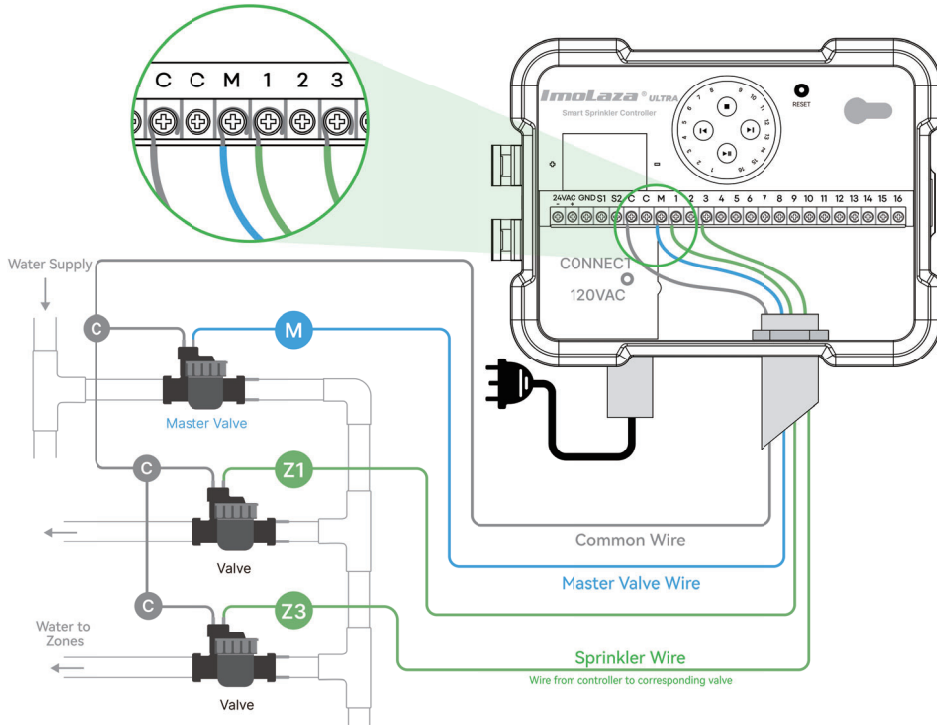
Simply connect each labeled zone wire to its corresponding terminal.

3. Master Valve/Pump Start Relay:

If you have a master valve or a pump start relay, attach its wire to the "M" terminal. In traditional controllers, master valve wires are typically labeled "M", "MV", "P", or "MV/P".

Once connected, open the ImoLaza App, go to "Settings" > "Controller Settings" > "Advanced Wiring (M Terminal)," and select "Master Valve" to activate the function.

2.3.1 Wiring Diagram



2.4 Sensor Wiring

1. Rain Sensor

ImoLaza works with all normally closed or normally open rain sensors, both wired and wireless. You can connect the rain sensor to your controller using the "S1" and "C" terminals.

2. Flow Sensor

Connect the flow sensor to your controller using the "S2" and "24VAC -" terminals.

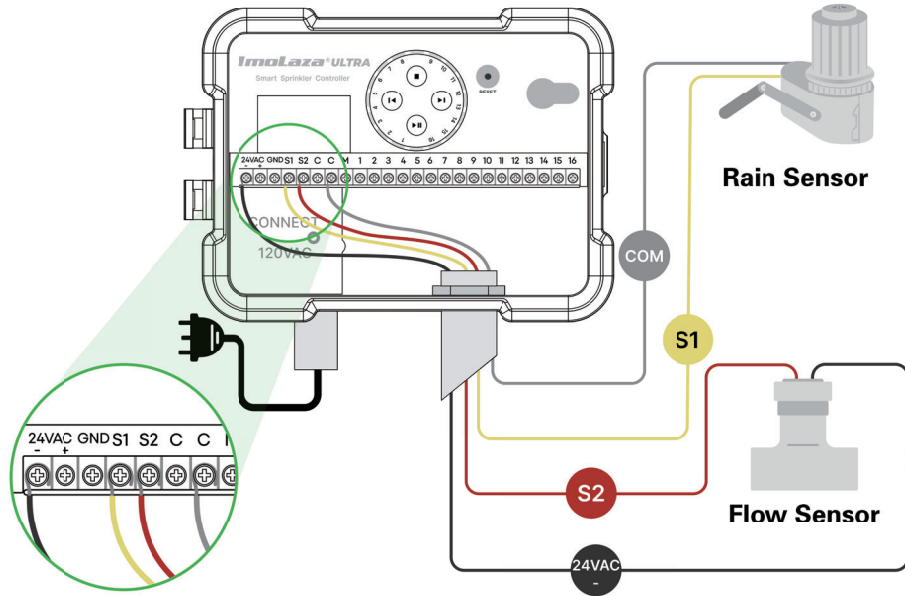
If you've connected a sensor, please go to "Settings" > "Controller Settings" > "Sensor" to activate the corresponding feature.

For further details on sensor usage with ImoLaza, scan the QR code or visit imolaza.com/sensors.

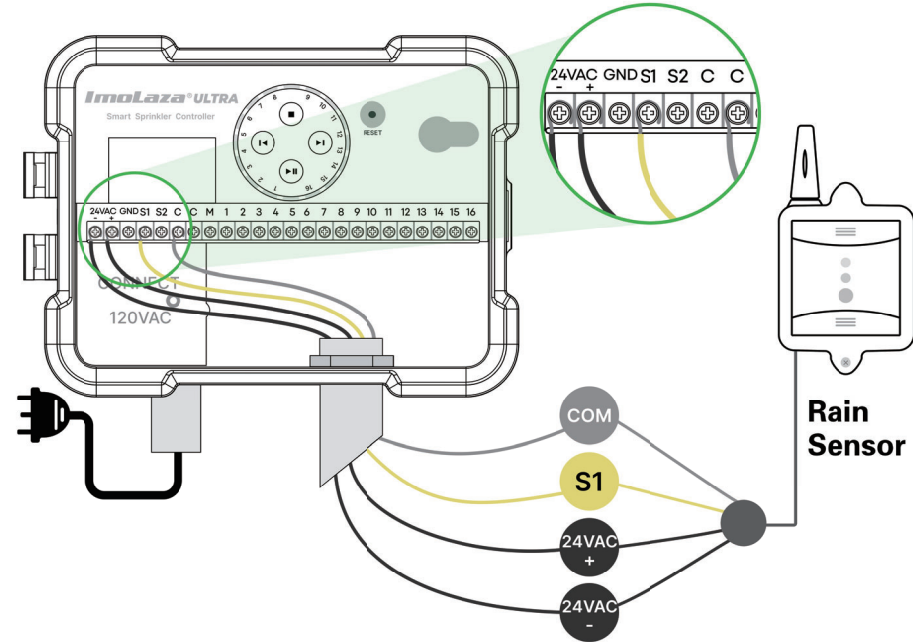


(imolaza.com/sensors)

2.4.1 Wired Sensor Diagram



2.4.2 Wireless Sensor Wiring Diagram

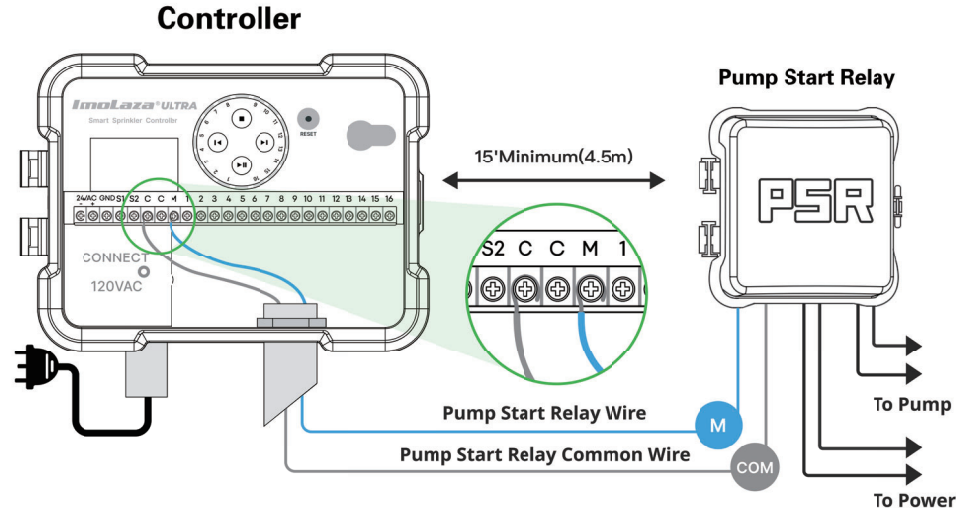


2.4.3 PSR Wiring Diagram

If your irrigation system runs off a well, use a pump start relay to link the pump to your ImoLaza controller. Connect the leads from your old controller – one from the "C" terminal and another from the "M" terminal – to the respective "C" and "M" terminals on your ImoLaza. Then, connect the relay to the pump.

Remember to select "Well/Pump Start Relay" in the ImoLaza App under "Settings" > "Controller Settings" > "Advanced Wiring (M Terminal)".

⚠ **Notice:** Do not connect the water pump directly to the controller.

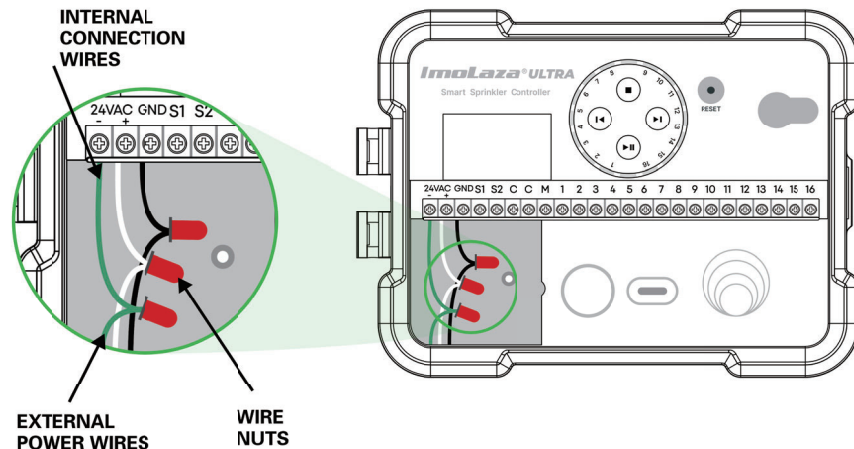


3. Connect Power

The ImoLaza® ULTRA comes with a standard power cord so it can be installed indoors. It can also be wired directly into a power supply. It has an internal transformer that reduces supply voltage (120 VAC in US) to 24 VAC. You will need to connect power supply wires to the transformer's three wires. (Hot, Neutral, Ground).

1. Remove the wiring bay cover at the bottom of the unit.
2. Locate the wiring compartment in the lower left-hand corner of the unit and using a screwdriver, unscrew wiring compartment front cover.
3. Route the three wires from an external power source into the wiring compartment.
4. Using wire nuts, connect the external power wires to the internal connection wires inside the wiring compartment.

⚠ **WARNING:** Electric shock can cause severe injury or death. Make sure power supply is turned OFF before connecting power wires.



Power Wiring Connections 120 VAC(US)

Black supply wire (hot) to the black transformer wire

White supply wire (neutral) to the white transformer wire

Green supply wire (ground) to the green transformer wire

4.1 Download the ImoLaza App

1. Download the ImoLaza app from the Apple App Store or Google Play, or scan the QR code below.
2. Follow the instructions in the app to create an account.
3. Sign in to the ImoLaza app with your account.



ⓘ **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.

4.2 Add the New Controller

The ImoLaza app will walk you through the process of adding and setting up the controller. Please follow the guidelines on the following pages.

To view a detailed video tutorial on how to add the controller, scan the QR code below.



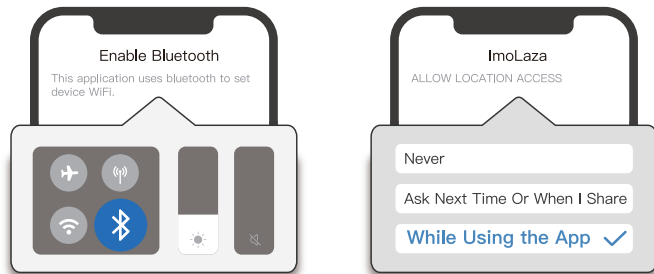
imolaza.com/ios-adding



imolaza.com/android-adding

4.2.1 iOS Adding

1. Open the Control Center and turn on Bluetooth service.
2. In your phone's "Privacy & Security" settings, allow the ImoLaza App to access your location services.
3. Power on the device, open the case and perform a reset.
4. In the app "Scan Controllers" page, select the one with the same MAC address as your device.

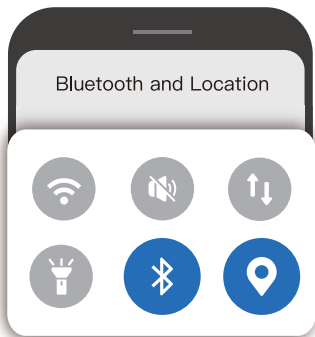


5. Input your 2.4GHz WiFi info or tap "Get phone's WiFi" to access your phone's network, then input the password to connect.
6. Enter your exact address info for accurate sunrise time and weather data updating.
7. Select your preferred weather station that is close to your location and reflects your yard's weather conditions.



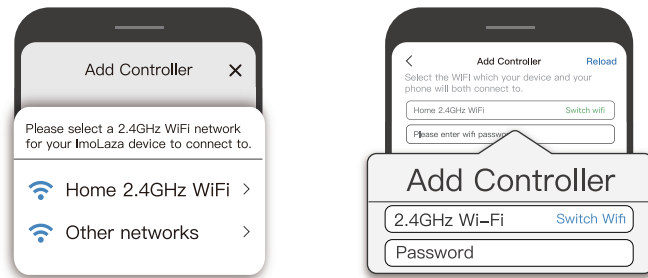
4.2.2 Android Adding

1. Open the Control Center and turn on Bluetooth and Location services.
2. Power on the device, open case and perform a reset.
3. In the app "Scan Controllers" page, select the one with the same MAC address as your device.
4. Input your 2.4GHz WiFi info or tap "Switch Wifi" to select one, to proceed.



5. Enter your exact address info for accurate sunrise time and weather data updating.
6. Select your preferred weather station that is close to your location and reflects your yard's weather conditions.

ⓘ **Notice:** If the Wi-Fi connection is lost, the watering schedules will still run as programmed. However, you need to reconnect the controller to regain full functionality.



5.1 Controller Features

1. Indoor/Outdoor Mount
2. Friendly App & Wi-Fi Control
3. Powerful 2.4GHz Wi-Fi chip
4. Master valve connection
5. Pump start relay connection
6. Rain sensor compatible
7. Flow sensor compatible
8. Real-Time Clock (RTC) chip
9. Smart fault detection
10. Surge protection
11. Advanced zone scheduling
by soil, slope, sprinkler, plant, sunlight type
12. Automated watering
13. Super flexible programming
14. Smart rain/wind/freeze skip
15. Smart saturation skip
16. Smart cycle and soak
17. Smart seasonal shift
18. Independent zone control
19. Local personal weather station available
20. Automatic water delay
21. Specified schedule skip
22. Delay between zones
23. Pipe water hammer minimize
24. Manual operation by zone or schedule
25. Standby mode
26. Smart alert & notification
27. Calendar view to show daily schedules
28. Personalized zones
29. Photo albums & notes
30. Watering schedules saved in non-volatile memory
31. Enable or disable rain sensor
32. Enable or disable zone
33. Detailed water usage report
34. Detailed water soil report
35. Valve Monitoring
36. Flow Monitoring
37. Offline Monitoring
38. Rain Sensor Monitoring
39. Weather Station Monitoring
40. Soil Moisture Monitoring

5.2 Continuous Improvement

The ImoLaza controller receives regular updates to introduce new features and enhance user experience. Consequently, there may be slight variations between the manual and the actual operation. For accurate guidance, always follow the prompts and instructions within the app.

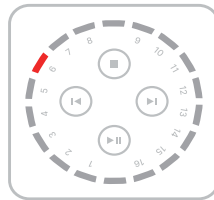
For assistance with installation, setup or new features, please visit <https://support.imolaza.com> or scan the QR code below.



([help.imolaza.com](https://support.imolaza.com))

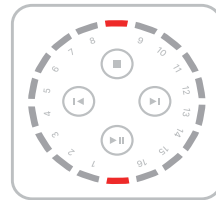
6.1.1 Short Circuit Indicator

When your ImoLaza ULTRA displays red lights, it indicates the detection of a short circuit.



Zone Short Circuit

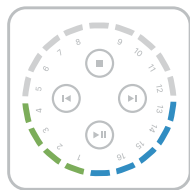
(Red light on
zone indicator)



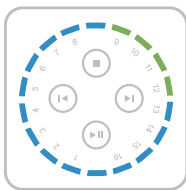
"M" Short Circuit

(Red lights on upper
& lower middle LEDs)

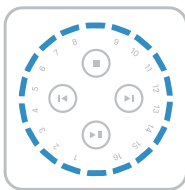
6.1.2 Normal Indicator Lights



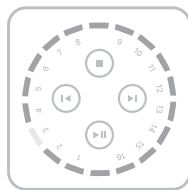
Connecting
to Wi-Fi



Connecting to
ImoLaza server



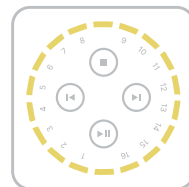
Controller activated
(blue light flashing)



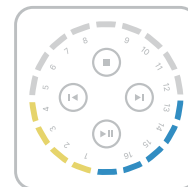
Watering
(white light flashing)

If the indicator lights mentioned above appear when adding a device or if a white light appears during watering, this is normal, so please do not worry.

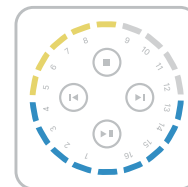
6.1.3 Abnormal Indicator Lights



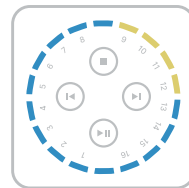
Wi-Fi no service



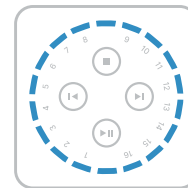
Wi-Fi connection
failed



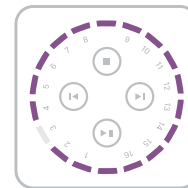
Wi-Fi no network or
unavailable



ImoLaza server
connection failed



Light failure
(steady blue)



Controller disconnected
(purple light rotating)

If the above indicator lights appear, it indicates a network connection issue. Please refer to the solutions in section "6.3 Connection Issues".

6.2 Electrical Issues

Problem	Possible Cause	Possible Solution
The indicator lights go out.	Power not reaching the Controller.	Ensure that your socket or power supply is not loose or damaged.
		Verify the power supply wires are connected to the Controller "PWR IN" terminals. (Using power cord)
		Verify the power supply wires are connected correctly to the transformer's three wires (Hot, Neutral, Ground).
		Verify the main AC power supply is securely plugged in or connected and is functioning properly.
	An electrical surge may have interfered with the controller's electronics.	Unplug the controller for 1 minutes, and then plug it back in. If there is no permanent damage, the controller should resume normal operation.
	The controller or power supply is broken.	Please try the above troubleshooting steps. If the issue persists, please contact us at support@imolaza.com for further assistance.

6.3 Connection Issues

Problem	Possible Cause	Possible Solution
Connection issues between mobile device and controller.	The Wi-Fi type is 5GHz.	ImoLaza is only compatible with 2.4GHz Wi-Fi networks. If your Wi-Fi is dual-band, separate your networks and rename them, for instance, 'Home 2.4G' and 'Home 5G.' Then, connect your controller to the 2.4GHz network.
	Wi-Fi signal strength is low.	Check that your phone displays at least two bars of Wi-Fi signal where your controller is located. If it doesn't, move your Wi-Fi router closer to reduce interference, or consider using a Wi-Fi signal booster if moving the router isn't an option.
	Insufficient Router Capacity.	Review the router's limits on connected devices and compare it to the current number of connections to make sure it's not overburdened
	Bluetooth function on the phone is not enabled.	Ensure that Bluetooth is switched on in your phone's system settings and control center, and that it has permission to interact with the app. Also, keep your phone within 10 feet of the device for a stable Bluetooth connection.
	Incorrect WiFi Password.	Please double-check to ensure the password is exactly correct. Ensure there are no extra spaces at the end and the capitalization is accurate (these are common issues we encounter with network connections).
	Other issues	Try adding the device with a smartphone or tablet that has a different operating system. For instance, if you're currently using an Android, switch to an iOS device, or if you're using an iOS device, try an Android instead.
		If it still doesn't work, please record a video of the process or take screenshots and email them to us. If you need to discuss this over the phone or via Zoom, let us know what time works best for you.

6.4 Watering Issues

Problem	Possible Cause	Possible Solution
The schedule running but no water is spraying out.	Water source not supplying water.	Ensure there's no interruption in the main water line and that all auxiliary water supply lines are open and operational.
	Wiring is loose or not properly connected.	Inspect and ensure that the valve wiring and the master valve or pump start relay wiring are securely fastened at the controller and in the field. For correct wiring procedures, please refer to the Hardware Installation manual.
	Valve wires are corroded or damaged.	Check valve wiring for damage and replace if necessary. Check wiring connections and replace with watertight splice connectors if needed.
	There are blockages in your nozzles.	Check your nozzles or zone valves for blockages. Remove any obstructions by cleaning the nozzles thoroughly and reinstalling them or, for valves, disassemble, clean, and reassemble them correctly
	There is an issue with the solenoid valve.	Check the corresponding zone's running indicator for a red light, which signifies a short circuit in that zone's solenoid valve. If the upper-middle and lower-middle lights are red, it points to a short circuit in the Master Valve/Pump Start Relay
	Connected rain sensor may be activated.	Allow the rain sensor to dry, or disconnect it from the controller's terminal block, then check if the system operates normally.
	Other issues	If the above solutions do not resolve the issue, please email us the wiring diagram along with a description of the problems encountered. If you need to discuss this over the phone or via Zoom, let us know what time works best for you.

6.5 FAQ

1. I haven't received the activation email, what should I do?

- (1) Check your inbox, including your junk and spam folders.
- (2) Ensure your mailbox is not full or nearing its storage limit.
- (3) If you still haven't received the activation email after resending it, please try registering with another email or contact the ImoLaza support team at support@imolaza.com for further assistance.

2. Unable to add the device even after multiple attempts to scan the QR code. How can I proceed?

- (1) Ensure the controller is connected to a 2.4GHz Wi-Fi network and within the Wi-Fi coverage range.
- (2) Double-check the accuracy of the entered Wi-Fi password, ensuring there are no extra spaces before or after it.
- (3) Attempt to manually enter the device's MAC address to add it.
- (4) Close the app from the background and reboot the router, then attempt to add the device again.
- (5) If the issue persists, contact ImoLaza for manual device binding assistance.

6.5 FAQ

3. Which Wi-Fi type does ImoLaza support?

ImoLaza Sprinkler Controller is compatible with 2.4GHz Wi-Fi networks only. These networks provide broader coverage and better penetration, resulting in a stronger and more stable signal connection. If you encounter issues with multi-band Wi-Fi connections, follow these steps:

- (1) Split your Wi-Fi network into separate ones and rename them, such as "Home 2.4G" and "Home 5G".
- (2) Connect your controller to the 2.4GHz network.

4. Why is the schedule running but no water is spraying?

- (1) Ensure proper wiring connections, then check for any loose connections.
- (2) Inspect nozzles or zone valves for blockages. If blocked, remove, clean thoroughly, and reinstall properly.
- (3) Check if solenoid valves are damaged. Use a multimeter in resistance mode to individually test the common wire with each zone wire. Expected resistance reading: 20–60 ohms. Replace faulty solenoid valves and retest the system.

5. How do I share my controller with others?

You can share your controller by going to "Settings" > "Controller Setting" > "Device Access Management".

6. How to add and manage multiple controllers?

Go to the "My ImoLaza" section on the homepage to add a new device or switch between different devices for management.

7. What should I do if the indicator light turns red during watering?

This is a unique circuit detection and alert feature of ImoLaza. When the indicator light turns red during watering, it indicates a short circuit issue with the solenoid valve or wiring of that specific zone. Use a multimeter to test if the solenoid valve is short-circuited. If confirmed, replace the solenoid valve.

6.5 FAQ

8. Why is the watering duration for ET Smart Schedule so long? How can I adjust it?

- (1) The "ET Smart Schedule" automatically recommends watering durations based on specific zone parameters. This schedule typically waters deeply but less frequently, promoting deep root growth, enhancing plant resilience to drought, and fostering healthier plants.
- (2) If you wish to modify the duration manually, update zone parameters by navigating to "Zones", selecting the zone, and clicking the "Edit" button in the upper right corner. Then, adjust the parameters to suit your zone conditions. Updating parameters will automatically adjust recommendations.

9. How to activate the Flow Monitoring function?

- (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.
- (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.

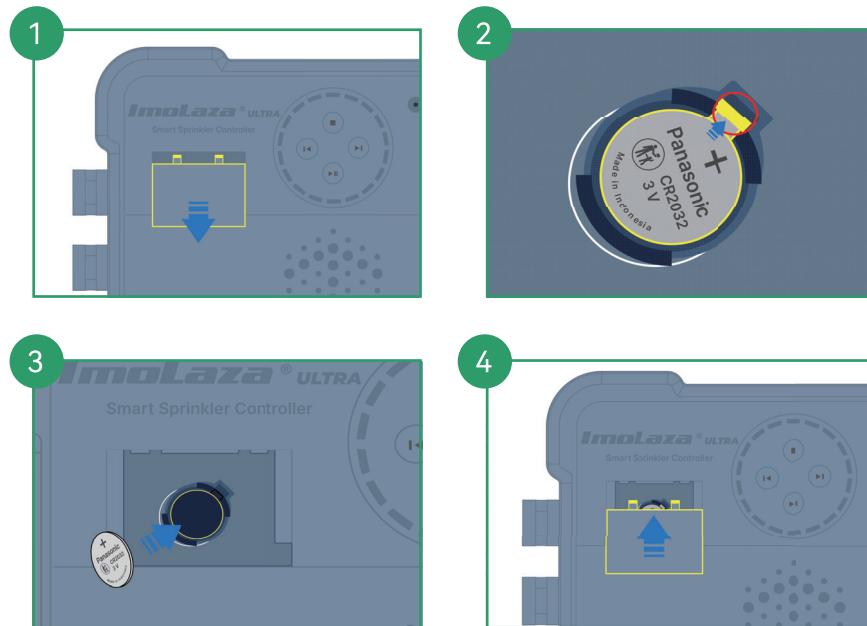
7.1 Replace the Battery

ImoLaza ULTRA has a built-in button battery (CR2032, 3V) that continues to power the time chip during network outages to ensure the schedule runs properly. It has a life expectancy of about 5 years. When the battery is low, you will be notified through the app. Please check and replace it in time.

Replacing the Battery:

1. After opening the outer case, open the battery cover by pulling it down.
2. Push the metal clip of the battery compartment outward and remove the old battery.
3. Insert the new battery with the front side up and the back side down into the battery compartment. (There is an anti-reverse design, so it cannot be inserted incorrectly.)
4. Close the battery cover by pushing it up.

⚠ WARNING: Before replacing the battery, please ensure the device is turned off to avoid electric shock and use only the recommended battery type to prevent damage.



7.2 Coin Cell Battery Warning

⚠ WARNING	
<ul style="list-style-type: none">• 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.

8. FCC Statement

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.