

# **Aeon Matrix PRO19 Series Smart Sprinkler Controller User Guide**

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**PRO19 Series Smart Sprinkler Controller** 



# User Guide

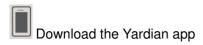




Digital version user guide



https://www.yardian.com/download/

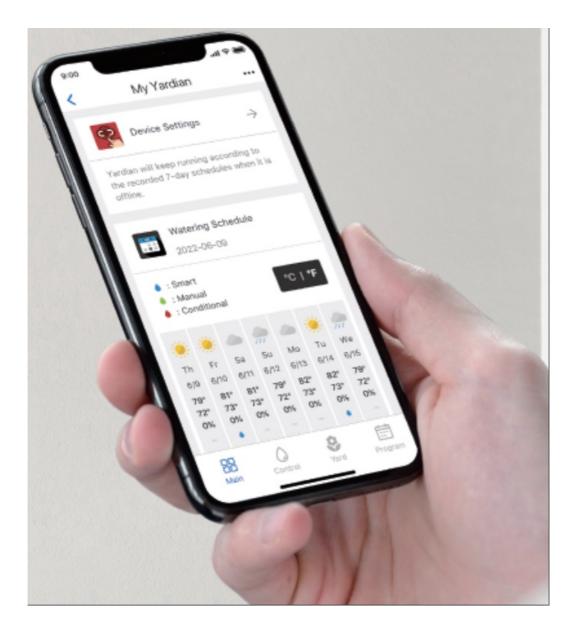




https://apps.apple.com/app/yardian/id1086042787



https://play.google.com/store/apps/details?id=com.aeonmatrix.yapp



# What's in the Box

1. Yardian Pro, the controller

Yardian must be connected to the power adapter included.

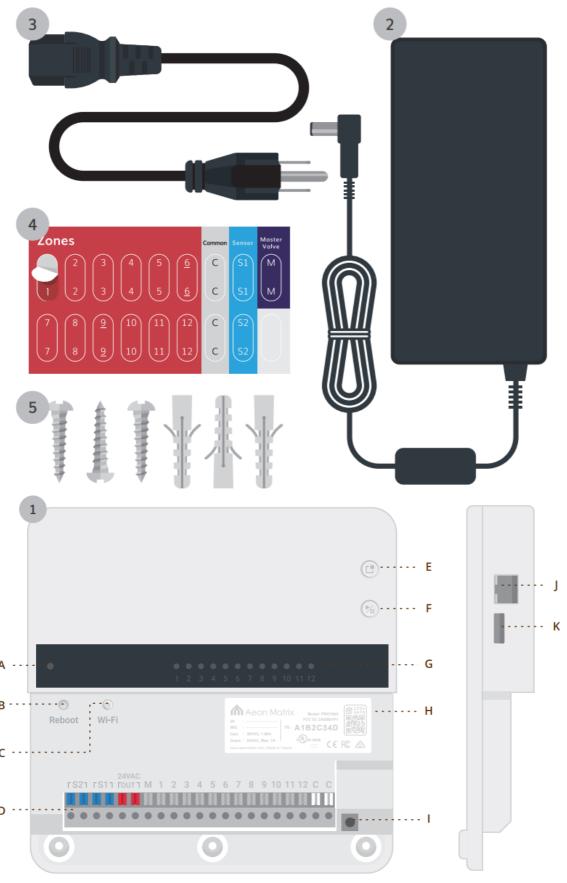
Output	24VAC, Max. 1A
Operating Temperature	-22°F to 140°F (-30°C to 60°C)

# 2. Power adapter

Input	100 – 240VAC, 50 – 60Hz
Output	36VDC, 1.66A

- 3. Power cord
- 4. Labeling stickers
- 5. Wall screws and anchors

Screw	Ø3/16 x 1"
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A Main LED

B Wi-Fi reset button

C Terminal blocks

D Select button

E Run/Stop button

F Zones LED

G Product label

H Power supply port

I Ethernet port

# Select Button and Run/Stop Button



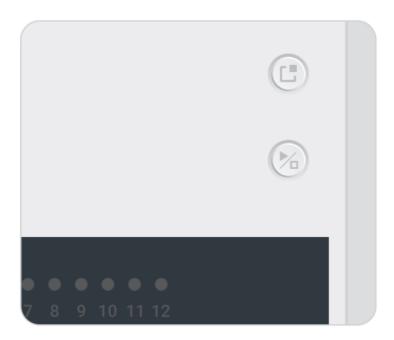
Select button



Run/Stop button

#### **Auto Scan**

- Press/hold Select and Run/Stop at the same time
  - o LED in green: solenoid valve attached
  - LED in red: faulty solenoid valve detected (overcurrent)

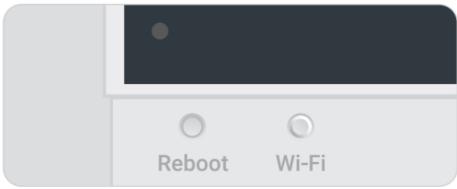


#### **Instant Control**

- Click Select on the top to specify a zone in Zone Selection Mode (LED in green).
- Press/hold Select for over 1 second to switch between Zone Selection Mode and Time Selection Mode (LED in red).
- Click Select to specify duration in min(s) in Time Selection Mode.
- Click Run/Stop to run the zone. To stop watering anytime, press/hold Run/Stop for over 3 seconds.

# **Reboot Button and Wi-Fi Reset Button**

Reboot Button Press to reboot the system



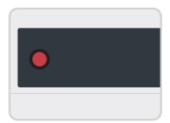
#### Wi-Fi Reset Button

Press and hold for around 5 seconds, release when the LED is blinking green and blue. Reset Wi-Fi

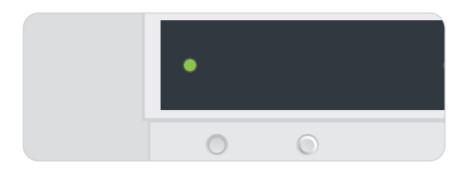


# Reset to factory default

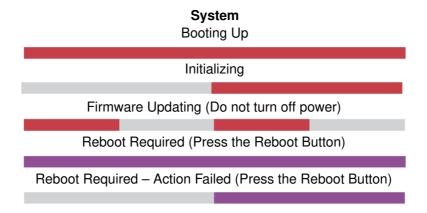
Press and hold for around 10 seconds, release when the LED turns red.

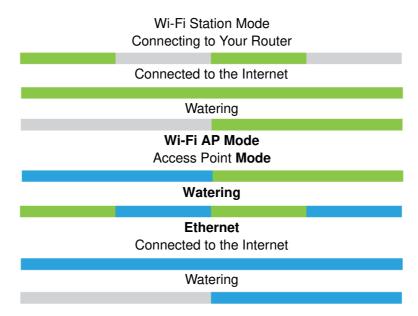


# **Main LED Indicator**

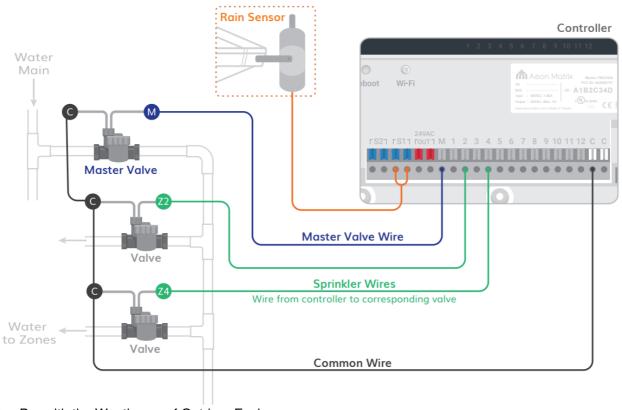


1 second	1 second	





# **Understand Your Irrigation System**



Yardian Pro with the Weatherproof Outdoor Enclosure



https://www.yardian.com/yardian-weatherproof-outdoor-enclosure/

# The Yardian Installation

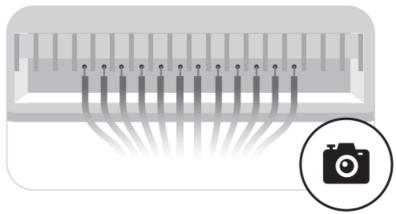
Set up your Yardian in a few easy steps

The Yardian should be mounted less than 6.5 feet (2 meters) from the floor for easier accessibility.

#### 1 Step

# Replace your old controller

Take a picture of your current wiring. This will help you identify the correct sequence of wires.

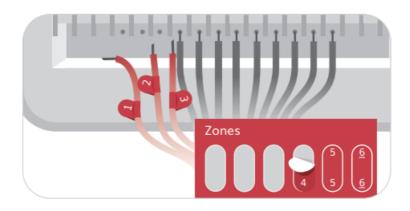


Exposed sprinkler wires with 24VAC could generate an electric shock in wet locations. Please ask your retailer or contractor if sprinkler accessories may be needed.



Disconnect your old controller and remove sprinkler wires. Adhere a numeric labeling sticker to tag each associated wire for easy identification.

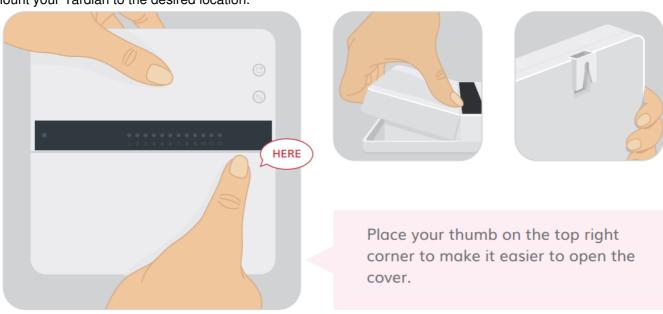
Remove your old controller from the wall.



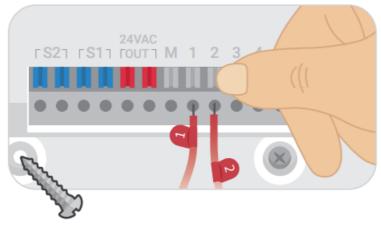
- Zones wires connected to zone valves
- Common common wire or ground wire
- Rain Sensor optional
- Master Valve optional

# 2 Step

Install your Yardian controller Open the top cover. Mount your Yardian to the desired location.



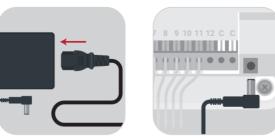
Mark the wall for the screws. Mount the Yardian with the screws. Connect sprinkler wires according to the corresponding labels.



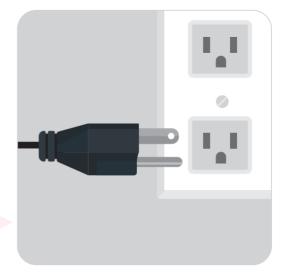
Please specify your rain sensor type (normally open or closed) in the app if applicable. If you attach more than 1 solenoid to a zone, please check your solenoid specifications and make sure the overall current consumption does not exceed 0.9A.



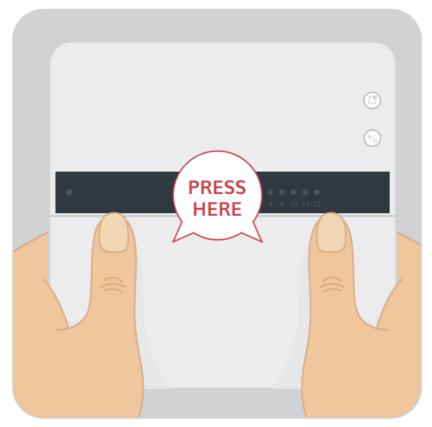
Plug the power cord into the home outlet.



Ensure to connect the power cord to a socket-outlet with earthing connection.



Close the top cover.





This product contains CR1225 battery. Risk of explosion if the battery is replaced by an incorrect type **3 Step** 

Download the Yardian app

Create an account.

Sign in the Yardian app with your account.





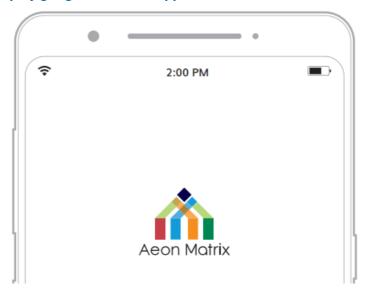
iOS 10.0+ https://apps.apple.com/app/yardian/id1086042787





Android™ 5.0 Lollipop®+

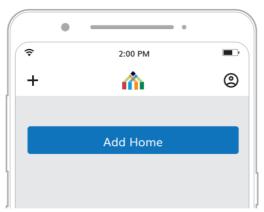
https://play.google.com/store/apps/details?id=com.aeonmatrix.yapp

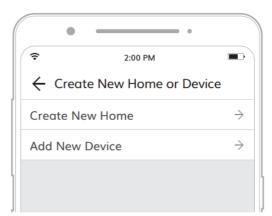


# 4 Step

Create New Home and Add New Device Add a home first, then add a new device.

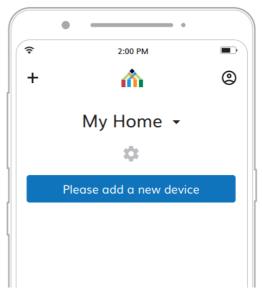
You can always tap the "+" sign to Create New Home or Add New Device.





Enter the 8-digit Yardian ID (YID) on the device. Please follow the in-app instructions to complete the procedure. You can tap the "gear" sign to change the Home name, location, and weather station.





#### 5 Step

Set up the Internet connection

Now you have added your Yardian device in a Home. Continue to set up the Internet connection for the Yardian. You can choose to use an Ethernet connection (see Step 5-A) or a Wi-Fi connection (see Step 5-B).

Step 5-A Ethernet connection

Step 5-B Wi-Fi onboarding

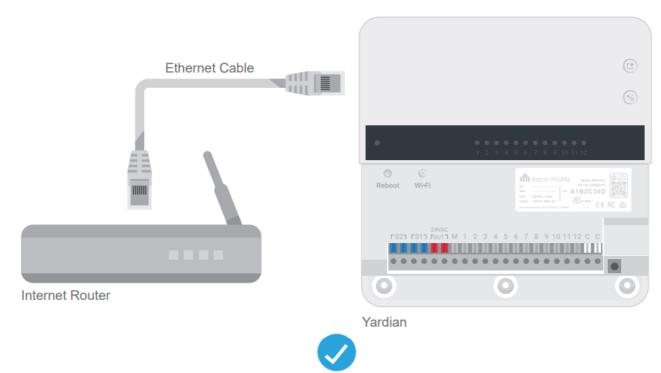
The Ethernet connection has a higher priority than the Wi-Fi connection when an Ethernet cable is detected to be connected.

#### 5-A Step

Ethernet connection

Connect the Ethernet cable to Yardian.

Connect the other end of the Ethernet cable to an open port on your router.



Check your Yardian LED: if it turns into solid blue, it means that Yardian has successfully connected to the Internet.

Congratulations! You have completed the setup process for your Yardian.



#### **WARNING**

Software may be updated when Yardian is connected to the Internet. Please DO NOT turn off the power when the LED is blinking RED. Interrupting the software update process may result in system malfunction.



#### 5-B Step

Wi-Fi onboarding

Keep your phone close to the Yardian device during the process.

Check the Yardian's LED status. It should be blinking green and blue (Wi-Fi AP mode) to proceed.

If the LED is not blinking in green and blue, please press and hold the Wi-Fi reset button for 5 seconds until you see the LED blinking green and blue.



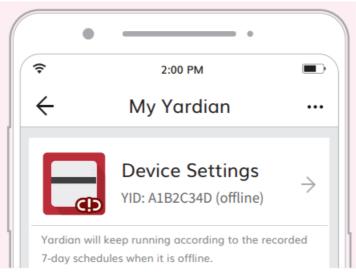
#### LED in purple!

If the LED has blinked green and blue for more than 15 minutes, it will turn purple. When you see the purple light, please press the reboot button to reboot the Yardian Pro.



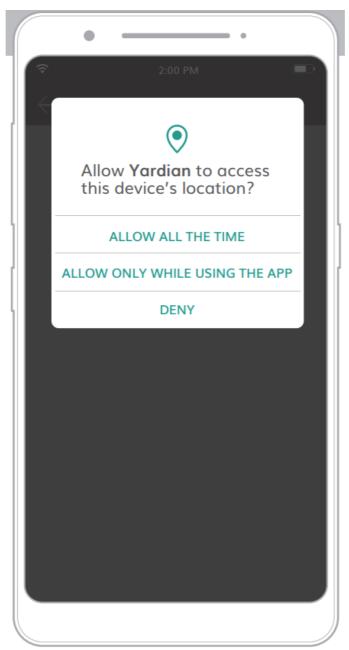
Wi-Fi connection process may vary depending on the operating system, please follow the instructions based on the operating system of your mobile device.

The Yardian app will automatically lead you to the "Wi-Fi onboarding" process. If it does not, please select the Yardian device settings card and go to "Wi-Fi onboarding".



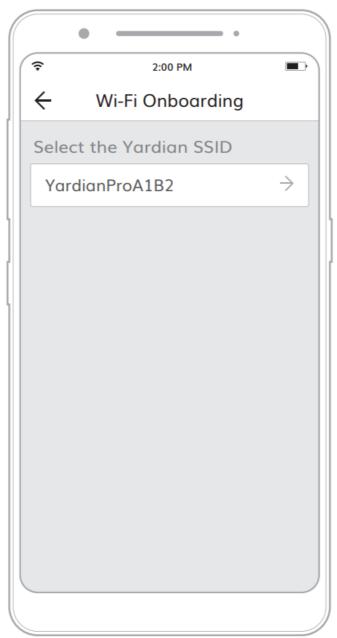
#### For Android users

Allow the Yardian app to access the device's location to get a list of available networks.

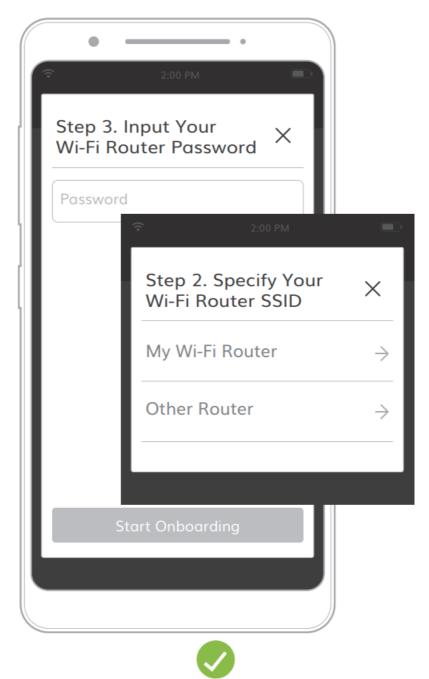


The Yardian app will scan for nearby wireless signals to provide you with a list of wireless networks to choose from.

Make sure your Wi-Fi is on. Select the Yardian SSID first.



Specify your home Wi-Fi router SSID and input the password.



Check the LED: if it turns into solid green, it means the Yardian has successfully connected to the Internet. Congratulations! You have completed the setup process for your Yardian.



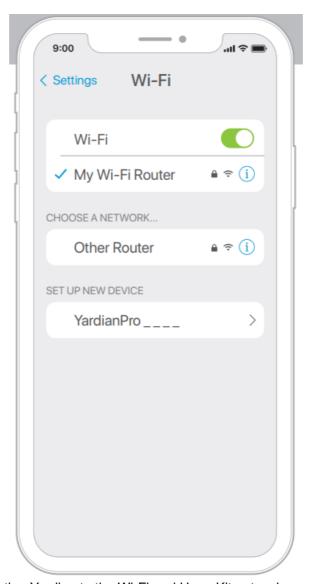
# WARNING

Software may be updated when Yardian is connected to the Internet. Please DO NOT turn off the power when the LED is blinking RED. Interrupting the software update process may result in system malfunction.

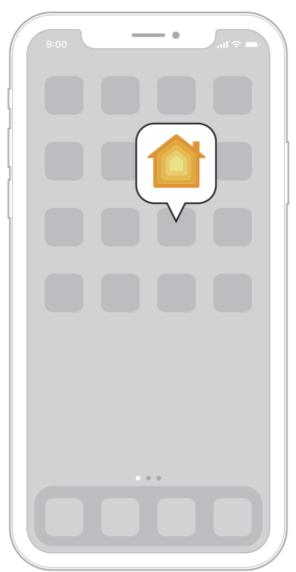


#### For iOS users

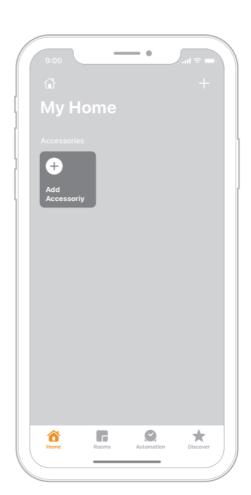
This step will help to build your Yardian as an Apple Home accessory as well as connect to the Internet. Please turn on Wi-Fi (2.4GHz network), and make sure you see the YardianPro ID below "SET UP NEW DEVICE" Make sure you have installed the Apple Home app.



Go to the Home app for connecting Yardian to the Wi-Fi and HomeKit network. You can also tap the YardianPro ID below the Wi-Fi connection page in the first step. It will take you directly to Apple Home.



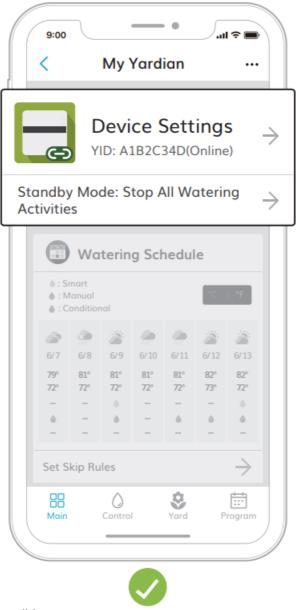
Tap "Add Accessory" to start.
Use the HomeKit setup code on the Yardian device.
Please follow the in-app instructions to complete the configuration.





Go back to the Yardian app.

Check the device status: if it shows "Online", it means the Yardian has successfully connected to the Internet.



Meanwhile, the LED will turn into solid green.

Congratulations! You have completed the setup process for your Yardian.



# WARNING

Software may be updated when Yardian is connected to the Internet. Please DO NOT turn off the power when the LED is blinking RED. Interrupting the software update process may result in system malfunction.





Visit www.yardian.com/app for more information about the Yardian app.



Works with Apple Homekit

# How to Use the Apple Home App to Control Yardian

iOS users can also do Yardian basic controls from the Home app.

After you have done the settings in the Yardian app, go to the Home app and find Yardian, you can see switches for enabled zones.

To control this HomeKit-enabled accessory, iOS 10.0 or later is recommended.

Use of the Works with Apple HomeKit logo means that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Drag the switch to run or stop watering the zone.

Tap the gear icon for zone setting. In each zone card, you can:

- · Enable or disable zones
- · Set watering duration for each zone
- · Name the zones

Changes made to zone names from the Apple Home app will not be reflected in the Yardian app. We recommend you to use the same name in the Apple Home app and the Yardian app.





#### The Federal Communication Commission Interference 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any 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.

# **Yardian Smart Sprinkler Controller Limited Warranty**

THIS LIMITED WARRANTY CONTAINS IMPORTANT INFORMATION ABOUT YOUR RIGHTS AND OBLIGATIONS, AS WELL AS LIMITATIONS AND EXCLUSIONS THAT MAY APPLY TO YOU.

#### WHAT THIS LIMITED WARRANTY COVERS; PERIOD OF COVERAGE

Aeon Matrix, Inc. may restrict this Limited Warranty service for the Product to the country where the Product or its authorized distributors originally sold the Product. Aeon Matrix, Inc. ("Aeon Matrix") warrants the enclosed product contained in this box ("Product") will be free from defects in materials and workmanship for a period of two (2) years from the date of delivery following the original retail purchase by the end-user purchaser (the "Warranty Period"). If the Product fails to conform to this Limited Warranty during the Warranty Period, Aeon Matrix will, at its sole discretion, either (a) repair or replace the defective Product or any component thereof; or (b) accept the return of the Product and refund the money actually paid by the original retail purchaser for the Product. Repair or replacement may be made with a new or refurbished Product or components thereof, at Aeon Matrix' sole discretion. If the Product or a component incorporated within it is no longer available, Aeon Matrix may replace the Product or component in question with a similar product or component of similar function, at Aeon Matrix' sole discretion. This is your sole and exclusive remedy for Product covered under the limited warranty within the Warranty Period.

Any Product or component thereof that has been repaired or replaced under the Limited Warranty shall remain covered by the terms of this Limited Warranty for the longer of (a) ninety (90) days from the date of delivery of the repaired or replaced product, or (b) the remainder of the Warranty Period. This Limited Warranty is transferable from the original retail purchaser to subsequent owners or purchasers, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

#### **TOTAL SATISFACTION RETURN POLICY**

If you are the original retail purchaser of the Product and you are not satisfied with this Product for any reason, you may return it in its original condition within thirty (30) days of the original purchase and receive a full refund.

# WARRANTY CONDITIONS; HOW TO GET SERVICE IF YOU WANT TO CLAIM UNDER THIS LIMITED WARRANTY

Before making a claim under this Limited Warranty, the owner of the Product must (a) notify Aeon Matrix of the intention to claim by visiting support.aeonmatrix.com during the Warranty Period and providing a reasonably adequate description of the alleged non-conformity of Product or its component(s), and (b) comply with Aeon Matrix's return shipping instructions. Aeon Matrix shall have no warranty obligations with respect to a returned Product or component(s) thereof if it determines, in its reasonable discretion after examination of the returned Product, that the Product is an Ineligible Product (defined below). Aeon Matrix will bear all costs of return shipping to the owner and will reimburse any shipping costs incurred by the owner, except with respect to any Ineligible Product, for which owner will bear all shipping costs.

#### WHAT THIS LIMITED WARRANTY DOES NOT COVER

This Limited Warranty does not cover the following (collectively "Ineligible Products"): Products or their components marked as "sample" or sold "AS IS"; or Products or their components that have been subject to: (a) unauthorized modifications or alterations, tampering, unauthorized or improper maintenance or repairs; (b) handling, storage, installation, testing or use not in accordance with the User's Guide or other instructions provided by Aeon Matrix; (c) abuse or misuse of the Product; (d) breakdowns, fluctuations, or interruptions in electric power or the telecommunications network; (e) Acts of God, including but not limited to lightning, flood, liquid contact, tornado, earthquake, hurricane, accident, or other external cause; (f) use with a third party component or product that does not meet the Products specifications; (g) cosmetic damage, including but not limited to scratches, dents and broken plastic on parts unless damage is due to defects in materials or workmanship of the Product; (h) defects caused by normal wear and tear or otherwise due to the normal aging of the Product; or (i) if any serial number has been removed or defaced from the Product. This Limited Warranty does not cover consumable parts, such as batteries or protective coatings that are designed to diminish over time, unless damage is due to defects in materials or workmanship of the Product (even if such consumable parts are packaged or sold with the product).

Unauthorized use of the Product or software can impair the Product's performance and may invalidate this Limited Warranty.

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WITHOUT LIMITING THE GENERALITY OF THE DISCLAIMERS ABOVE, ALL PRODUCT INFORMATION IS PROVIDED FOR YOUR CONVENIENCE "AS IS" AND "AS AVAILABLE". AEON MATRIX DOES NOT REPRESENT, WARRANT, OR GUARANTEE THAT PRODUCT INFORMATION WILL BE AVAILABLE, ACCURATE, OR RELIABLE OR THAT PRODUCT INFORMATION OR USE OF THE SERVICES OR PRODUCT WILL EFFECT YOUR TOTAL WATER CONSUMPTION OR CONDITION OF YOUR PLANTS AND GARDEN. AEON NOR DOES AEON MATRIX REPRESENT, WARRANT, OR GUARANTEE THAT PRODUCT INFORMATION OR USE OF THE SERVICES OR PRODUCT WILL PROVIDE SAFETY IN YOUR HOME. YOU USE ALL PRODUCT INFORMATION, THE SERVICES, AND THE PRODUCT AT YOUR OWN DISCRETION AND RISK. YOU WILL BE SOLELY RESPONSIBLE FOR (AND AEON MATRIX DISCLAIMS) ANY AND ALL LOSS, LIABILITY, OR DAMAGES, INCLUDING BUT NOT LIMITED TO YOUR VALVES OF ANY KIND, PUMPS, PUMPS RELAYS, IRRIGATION EMITTERS OF ANY KIND, WIRING, FIXTURES, ELECTRICITY, HOME, PRODUCT, PRODUCT PERIPHERALS, COMPUTER, MOBILE DEVICE, AND ALL OTHER ITEMS AND PETS IN YOUR HOME, RESULTING FROM YOUR USE OF THE PRODUCT INFORMATION, SERVICES, OR PRODUCT. PRODUCT INFORMATION PROVIDED BY THE SERVICES IS NOT INTENDED AS A SUBSTITUTE FOR DIRECT MEANS OF OBTAINING THE INFORMATION.

#### **VARIATIONS THAT MIGHT APPLY TO THIS LIMITED WARRANTY**

This Limited Warranty gives you specific legal rights. You may also have other legal rights that vary by state, province, or jurisdiction. Likewise, some of the limitations set out above may not apply to you. The terms of this Limited Warranty will apply to the extent permitted by the applicable law.

#### **GOVERNING LAW, JURISDICTION, AND DISPUTE RESOLUTION**

This Limited Warranty and the purchase of the Product shall in all respects be construed, interpreted, and/or enforced in accordance with and governed by the laws of the State of California. Other than as set forth above, you knowingly and irrevocably waive the right to bring or maintain any action, claim or proceeding in any court of law arising out of or related to this Limited Warranty or the Product. You further irrevocably waive any right to a jury trial of any non-waived action, claim or proceeding.

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#### **Documents / Resources**



Aeon Matrix PRO19 Series Smart Sprinkler Controller [pdf] User Guide PRO19 Series Smart Sprinkler Controller, PRO19 Series, Smart Sprinkler Controller, Sprinkler Controller, Controller

#### References

- <u>Matrix Your Technology Partner For A Sustainable Future</u>
- Mardian App Control From Anywhere | Aeon Matrix
- M Download Yardian Pro Smart Irrigation Aeon Matrix

Manuals+,