NETRO

SPRITE

Smart Watering Controller

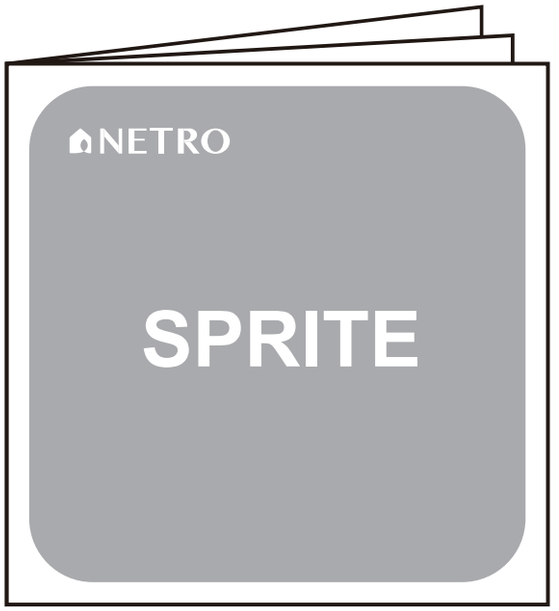
Quick start guide

Meet the Watering System of the Future

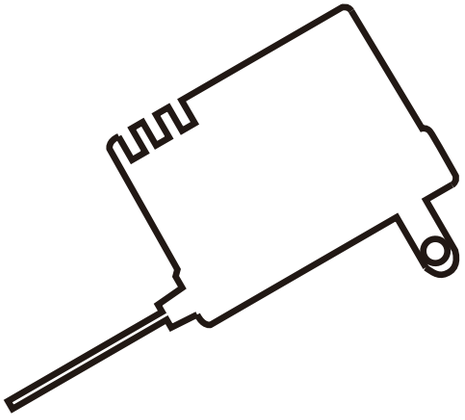
For user manuals in other languages, please visit
netrohome.com

Contents

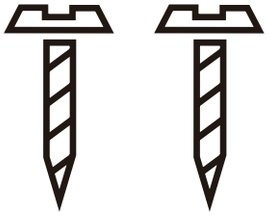
Controller



Instructions



24V Power Adapter



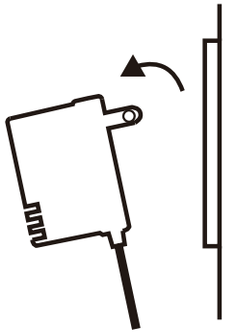
2 Screws

Preparation

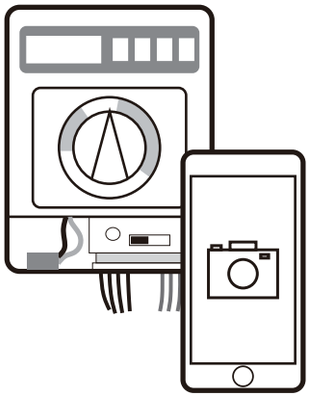
1 Test the functionality of your irrigation system with your current controller first. If it does not work, please make sure it is repaired before installing the Sprite.

Note: If you are not sure about the condition of your sprinkler system, you might want to check whether there are shorted zones or open zones. You just need to use a multimeter to measure the resistance between the common wire and each zone. The normal reading would be 20-60 Ohms. If the reading is less than 10 Ohms then you might have a shorted circuit in the solenoid and if it is larger than 80 Ohms you might have an open circuit. Please contact us or irrigation professionals for additional support.

2 Unplug the power of your current controller.



3 Take a photo of the wiring in your old controller. When you are wiring Sprite, this photo can be the reference.



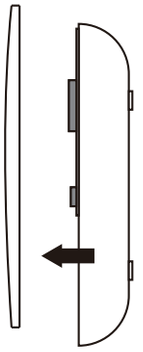
4 Remove your current controller.

Installation

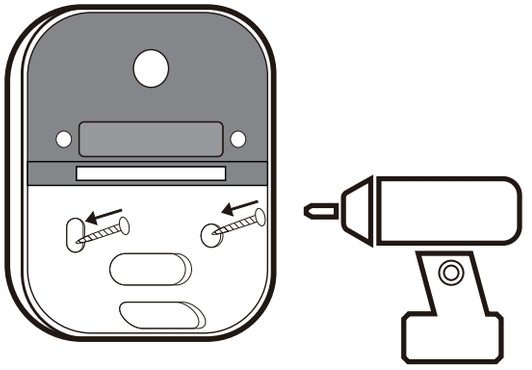
1 Check the strength of the WiFi signal at the location where your Sprite will be installed.We recommend a signal of at least 2 bars on your phone.

Note: Sprite is unable to connect to Wireless-B(11Mbps) routers. Sprite only supports the newer standards, namely Wireless-N,Wireless-G and Wireless-AC. Sprite is incompatible with 5 GHz Wi-Fi networks.
Also, please make sure the SSID (name of your home Wi-Fi) and the password does not contain special characters like spaces or quotation marks.

2 Remove the front cover from the base.



3 Install the Sprite base to the wall using the two screws included. Use the air bubble to position horizontally.

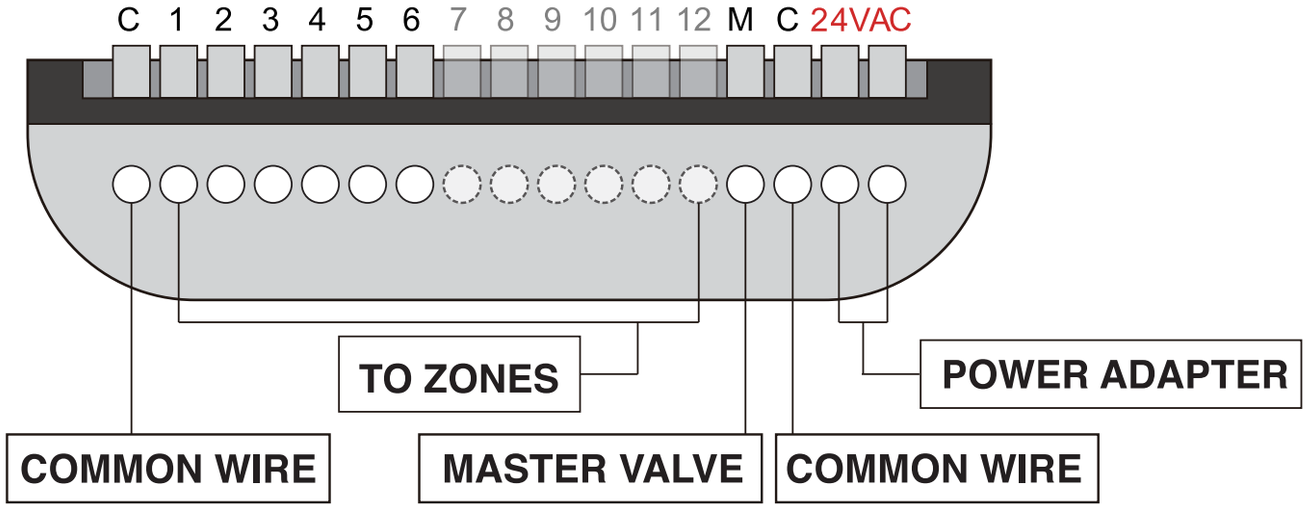


Wiring

4 Reconnect the wires to the slots on the base.

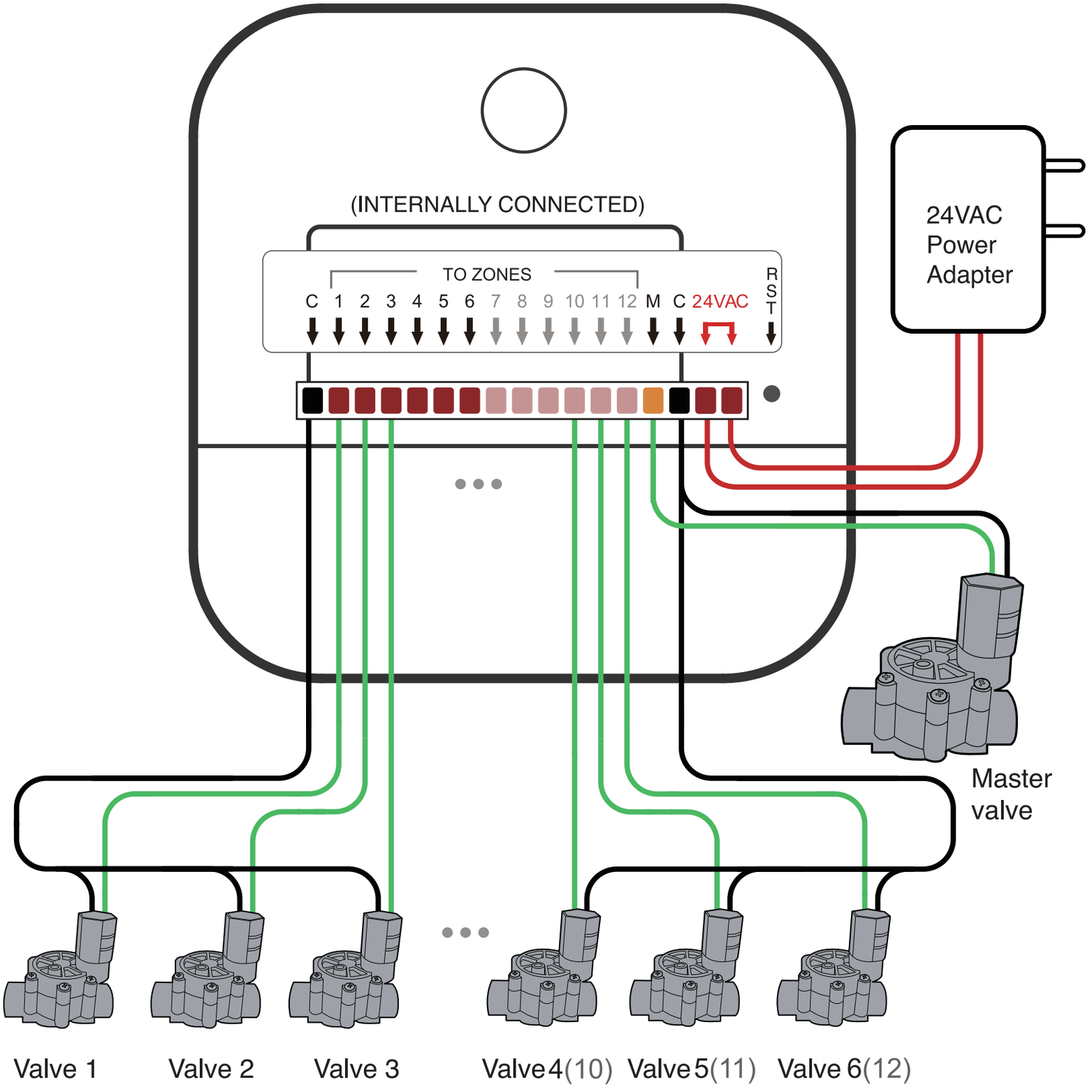
Tips:

1. Use the picture of the wires on your old controller to help you remember.
2. The slot named “M” is for the master valve or the pump. In some controllers it is named as “PMV” or “P/MV”. If you do not have a master valve or a pump, you can leave this "M" slot unconnected.
3. If the old controller has only one common wire, you can connect it to either one of the "C" slots and the other "C" slot will sit empty.
4. If you want to use your old power adapter which has a ground wire, you can leave the ground wire open.
5. If the old controller is connected to a rain sensor, you do not need to connect the sensor wires because your Sprite obtains weather information from the WiFi network.



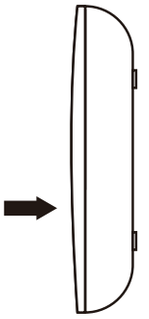
If you are not sure about the wiring, please send the picture of the wiring in the old controller to support@netrohome.com. Our customer service will provide quick support.

Wiring

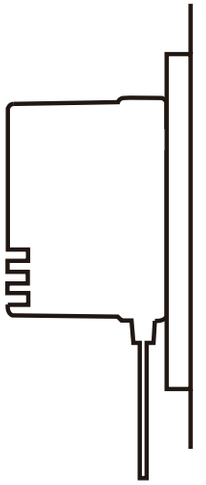

(INTERNALLY CONNECTED)
TO ZONES
C 1 2 3 4 5 6 7 8 9 10 11 12 M C 24VAC
R S T
24VAC Power Adapter
Master valve
Valve 1
Valve 2
Valve 3
Valve 4(10)
Valve 5(11)
Valve 6(12)

Setup

5 Put the front cover back on the base.



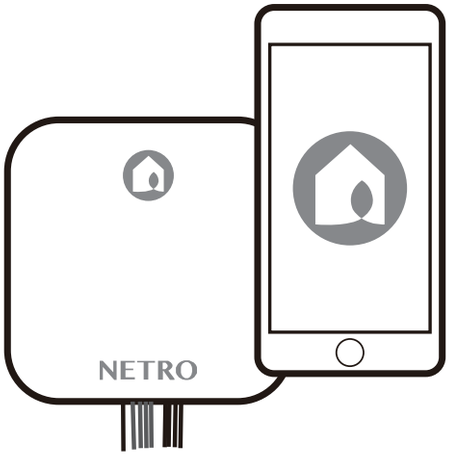
6 Plug in the power. Wait for 1-2 minutes, the light will be blinking slowly (once every second). If the light is stable or blinking fast (twice every second), press the RST button.



7 The network of your Sprite will be in its HOST mode (you will see a WiFi network named "Netro_IRC_xxx"). Please do not connect your phone to this Netro_IRC_xxx network right now. You will be asked to do so in step 8.

8 Download the free Netro app and start to configure.

Tip:
Search for "Netro sprite watering" on Google Play and App Store.



Weather Data

Once your Sprite is added to your account through the Netro app, the Netro cloud server automatically acquires the local weather data for adjusting the watering schedules.

- Change providers

By default, your Sprite is connected to DarkSky for weather data. You can change it to a different weather source in the Netro app -> Settings -> Controller -> Weather Provider.

Smart Zone

Your Sprite optimizes the watering schedules based on weather conditions and watering regulations. You can select the Smart level for each zone in the Netro app -> Settings -> Zones -> Smart Zone.

- Advanced:

Your Sprite automatically creates smart watering schedules based on moisture level and watering regulations. User programs will be skipped based on local weather conditions.

- Basic:

No smart watering schedules will be created and you need to setup user programs in Settings->Programs. Your Sprite skips user programs based on local weather conditions and watering regulations.

The LED Light

The LED light on your Sprite has three possible statuses:

Blinking slowly (on for a second and off for a second): this means the unit is in its HOST mode. This happens when you first plug in your Sprite or reset it, and indicates that it needs to go through the setup steps in the app to connect to a home WiFi network.

Solid: this means the unit is connected to your home WiFi.

Blinking quickly (on for 0.5 second and off for 0.5 second): This happens when you first set up your unit and did not enter the correct password, or whenever it loses its connection to the Netro cloud server.

The Reset Button

The reset button is located underneath the cover and is next to the AC adapter wiring slots. It is marked RST. You will need a pin or long, thin object to press the button.

Short press: to reset your Sprite to its HOST mode, simply press the button once for less than 1 second. Your Sprite should start blinking slowly in a few seconds.

Long press: to reset the unit to factory settings, hold down on the button for 6-8 seconds. Wait for 1-2 minutes, the light on your Sprite should start blinking slowly.

Troubleshooting

Sprite is unable to connect to my home Wi-Fi even if the correct password is entered.

1. It is possible that your WiFi router is too far away. We recommend a signal of at least 2 bars on your phone. It is also possible that your router is an old one and runs on Wireless-B (11Mbps). Sprite only supports the newer standards, namely Wireless-N, Wireless-G and Wireless-AC.
2. In the app, select WEP mode below the password field if your router is using WEP encryption.
3. Double check the password. You should enter the password of your home WiFi, not the password of your Netro account.
4. Make sure your router has access to the internet and it is not blocking port 1883 which is reserved for MQTT. Rebooting the modem might help.
5. Sometimes, rebooting your router can resolve some connection issues.

During the Wi-Fi setup, after I input the password, Sprite starts to blink quickly.

That means your Sprite is unable to contact the Netro server. It will disconnect from your router and change back to its host mode in a few seconds. Please see the above question for solution.

During the Wi-Fi setup, my phone cannot find the Wi-Fi network "Netro_IRC_XXX" hosted by Sprite.

Please press the RST button for less than 1 second, make sure Sprite is in host mode and the LED is blinking slowly(once per second).

Troubleshooting

During the Wi-Fi setup, my home Wi-Fi cannot be discovered.

Please make sure your router is turned on and has a signal of at least 2 bars on your phone at the location where your device is installed. Sprite only connects to 2.4 GHz Wi-Fi networks. You might also try to reboot your router.

The app says Sprite is watering but it is not opening the valves.

Please check the wires. Are they loose or disconnected from the slots? Please also check the common wires and the master valve if you have one. If you believe the wires are correctly installed, you might want to check whether there are shorted zones or open zones. You just need to use a multimeter to measure the resistance between the common wire and each zone. The normal reading would be 20-60 Ohms. If the reading is less than 10 Ohms then you might have a shorted circuit in the solenoid and if it is larger than 80 Ohms you might have an open circuit.

The light on Sprite is blinking fast (twice per second).

If your app shows the device is offline, your Sprite is unable to connect to your home WiFi (possible causes: 1. your router is down; 2. Wi-Fi signal is weak; 3. the SSID/password is changed) or the router has no access to the internet. If your app shows the device is online, you do not need to do anything. There was a network glitch when the device tried to get the watering schedules from the cloud server. The light will be back to steady when it updates the schedules successfully in an hour. Reboot your sprite (unplug and replug the power) if it does not.

FAQ

How do I test the sprinkler system with Sprite?

There are two ways to test your sprinklers after installing Sprite: You can create an account and connect Sprite to your home Wi-Fi, then you can use the 'remote control' feature on the Netro app to turn on and off the zones instantly. If you just moved into a house and possibly have not installed the router, the "Test run" mode might work well for you: download the Netro app and use the "Test run" feature on the login page. In this way you do not need to have a home Wi-Fi or create a Netro account. Your phone is directly connecting to the Wi-Fi network hosted by the Sprite. This mode allows you to turn on and off the zones without involving the Netro cloud server.

Does Sprite work with rain sensors?

Sprite is not designed to support the traditional rain sensors because those rain sensors do not forecast rainfall. For example, you usually do not need to water your lawn if the rain is coming tomorrow but your rain sensors will not tell you that. Netro has more advanced technology including real-time weather information to be aware of the rainfall in the past and also in the future. For even more accurate watering schedules, Netro offers wireless moisture sensors which measure exactly how much water your plants need. We believe these innovations that Netro is built with are changing the way of home irrigation.

FAQ

What if I have more than 6(12) zones?

Consider adding another Sprite. The Netro app is capable of managing multiple controllers. You can link two controllers together. You will need to have at least two “common” wires so that each controller gets one. If there is only one “common” wire, it needs to be connected to both controllers by using a wire splitter.

Will Sprite re-connect to the Wi-Fi automatically after a power outage?

Sprite will re-connect to the Wi-Fi automatically after a power outage. Also, all the zone settings and watering schedules are saved on the cloud server, so you will not lose anything.

What happens if the Wi-Fi connection is lost, for example the router or the internet service is down?

Sprite will continue to execute the pre-loaded schedules for up to one month.

Can I use Sprite when I am away from my home Wi-Fi, for example on vacation?

Yes, as long as your phone/tablet has access to the internet, you can control and monitor your Sprite.

Specifications

Mechanical Specifications	
Dimensions	5.7X5.7X1.2 (1nches)
Weight	8.2 oz / 230 g
Output	6 (12) zones + 1 master valve

Electrical Specifications	
AC Input	24VAC, 50 / 60 Hz, 800 mA
Valve output	24 VAC, 50 / 60 Hz, max 10VA
Master valve	24 VAC, 50 / 60 Hz, max 10VA
WiFi	802.11N, 2.4Ghz, US / Japan / EU
Indoor operating temperature range	-4° to 122°F / -20° to 50°C

Support

support@netrohome.com

FCC Compliance Notice and other legal information:
visit netrohome.com

Limited Warranty

Netro Inc., Portland, Oregon USA, warrants to the owner of the enclosed product that the product contained in the box 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. If the Product fails to conform to this Limited Warranty during the Warranty Period, Netro Inc. will repair or replace any defective product or component.

Return Policy

If you are the original 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.

SPRITE

Contrôleur d’arrosage intelligent

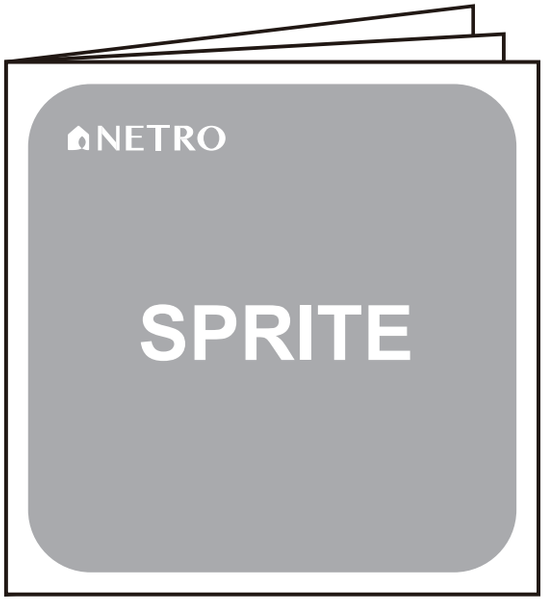
Guide de démarrage rapide

- Français -

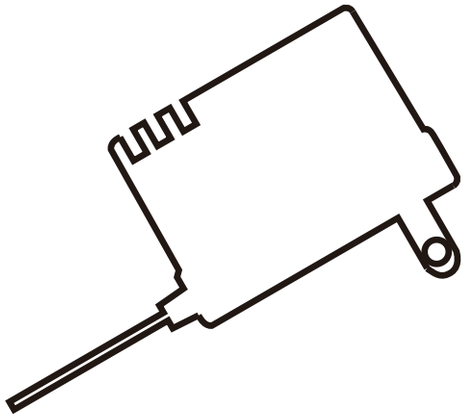
Rencontrez le système d’arrosage du futur

Contenus

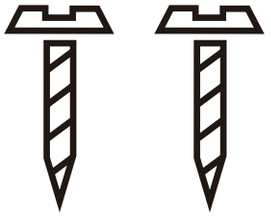
Contrôleur



Mode d’emploi



Adaptateur 24 V



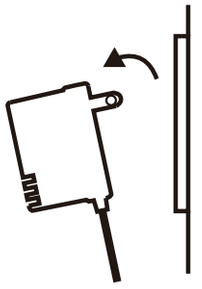
2 vis

Préparation

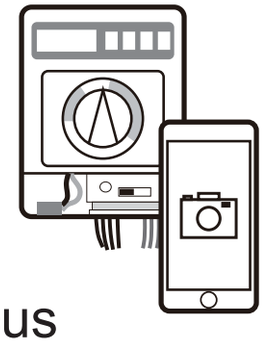
1 Commencez par tester la fonctionnalité de votre système d'arrosage avec votre contrôleur actuel. S'il ne fonctionne pas correctement, vérifiez votre installation avant d'installer le contrôleur Sprite.

Remarque: si vous n'êtes pas certain de l'état de votre système d'arrosage, il est recommandé de vérifier qu'il n'y a pas de court-circuit ou de fuite de courant. Vous aurez besoin pour cela d'un multimètre pour mesurer la résistance entre le fil Commun (généralement blanc) et chacune des bornes câblées représentant les différentes zones. Le multimètre devrait afficher une valeur entre 20 et 60 Ohms. Si le multimètre affiche moins de 10 Ohms, cela signifie qu'il y a un court-circuit dans la résistance ; s'il affiche plus de 80 Ohms, c'est qu'il y a une fuite de courant. Dans ce cas veuillez prendre contact avec nous ou bien avec un professionnel des systèmes d'arrosage pour une assistance supplémentaire.

2 2 Débranchez votre contrôleur actuel.



3 Prenez une photo du câblage de votre ancien contrôleur, elle vous servira de référence lors de l'installation de votre contrôleur Sprite.



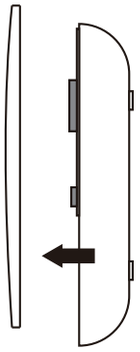
4 Sectionnez le disjoncteur du contrôleur, assurez-vous qu'il n'y ait plus de tension à l'aide d'un multimètre puis décâblez votre contrôleur actuel.

Installation

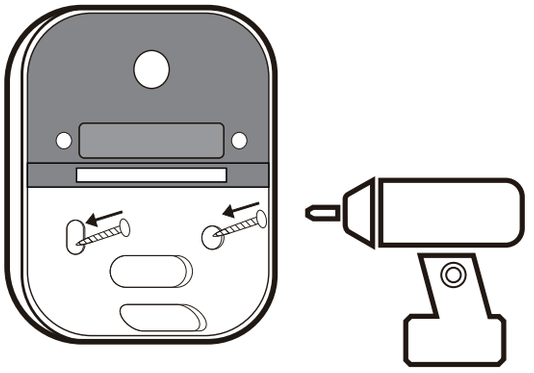
1 Vérifiez la portée du signal WiFi à l'endroit où vous souhaitez installer le Sprite.
Nous recommandons un signal d'au moins 2 barres sur votre téléphone.

Remarque: Le Sprite ne peut pas se connecter aux routeurs sans fil Wireless - B (11Mbps). Le Sprite ne reconnaît que les standards les plus récents, tels que Wireless-N, Wireless-G, et Wireless-AC. Le Sprite est incompatible avec les réseaux WiFi de 5 GHz.
De plus, assurez-vous que le SSID (le nom donné à votre WiFi) ainsi que le mot de passe ne contiennent pas de caractères spéciaux comme des espaces ou des guillemets.

2 Retirez le volet de protection.



3 Installez la base du Sprite au mur à l'aide des deux vis incluses dans votre kit. Utilisez un niveau à bulle pour la fixer de manière horizontale.

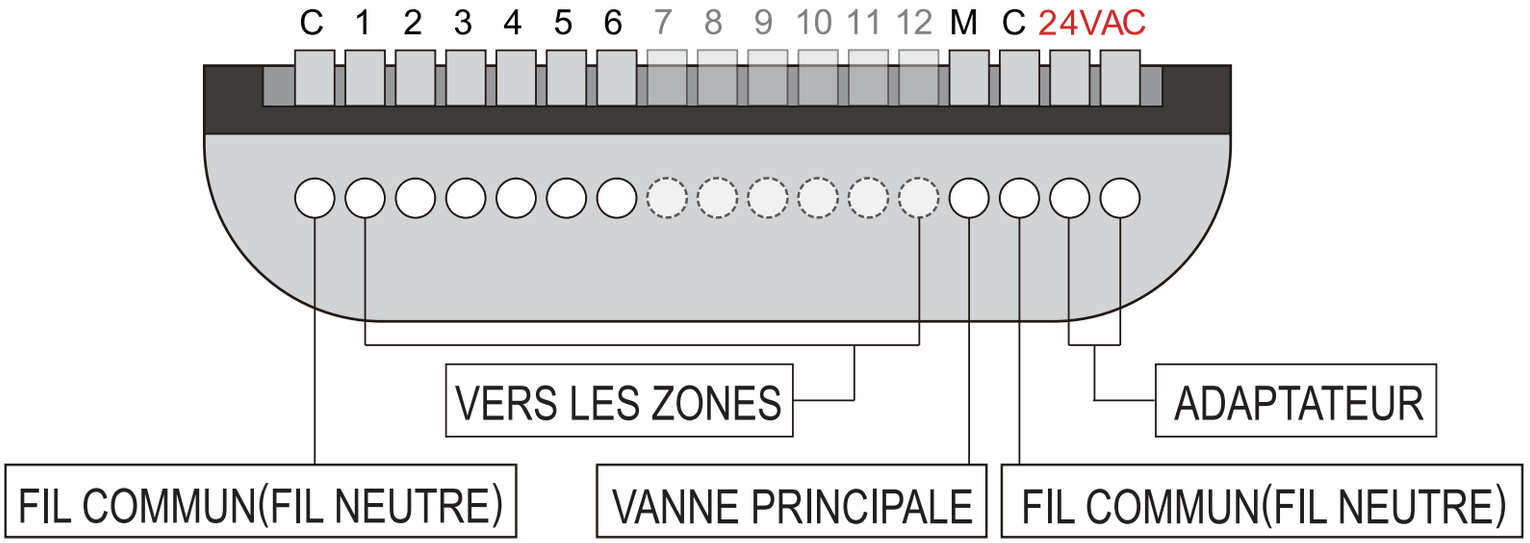


Branchement

4 Reconnectez les fils aux bornes de la base du Sprite.

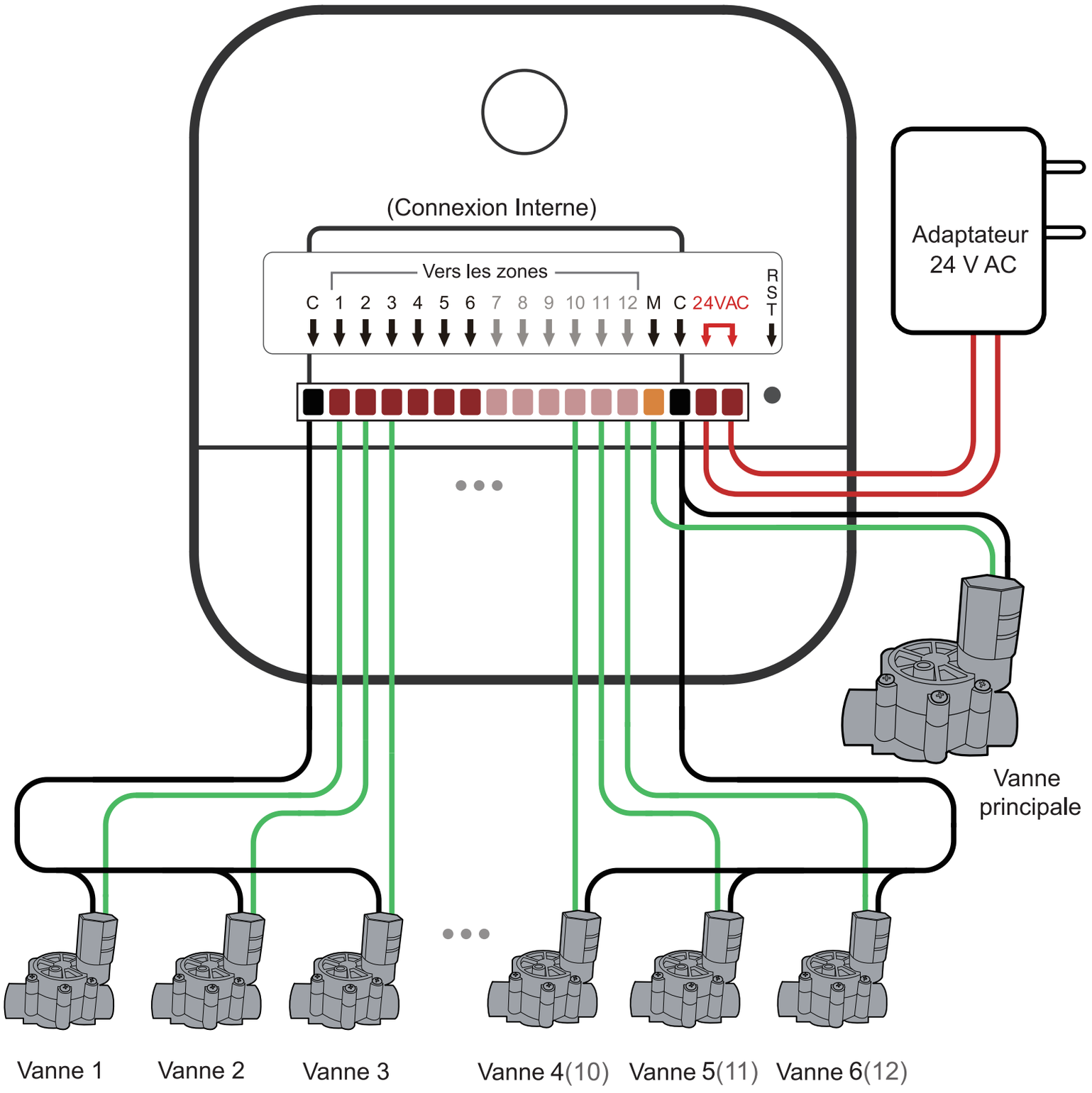
Conseils:

1. Utilisez la photo du câblage de votre ancien contrôleur pour vous aider à câbler le nouveau.
2. La borne « M » est dédiée à la vanne principale ou à la pompe. Sur certains contrôleurs, elle porte les lettres « PMV » ou « P/MV ». Si vous n'avez ni vanne principale ni pompe à brancher, vous pouvez laisser cette borne « M » vide.
3. Si l'ancien contrôleur n'avait qu'un fil Commun, vous pouvez brancher ce dernier à l'une des deux bornes « C » (l'autre borne « C » restera vide).
4. Si vous souhaitez utiliser votre ancien adaptateur doté du fil de Terre, vous pouvez l'utiliser sans le brancher dans le boîtier.
5. Si l'ancien contrôleur est connecté à un capteur de pluie, il n'est pas nécessaire de brancher les fils du capteur car votre système Sprite reçoit les données météo par WiFi.



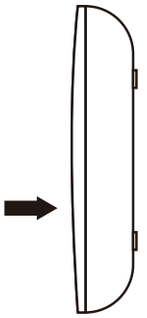
Si vous n'êtes pas sûr du câblage, veuillez envoyer la photo du câblage de l'ancien contrôleur à support@netrohome.com. Notre service client est là pour vous apporter une assistance rapide.

Branchement

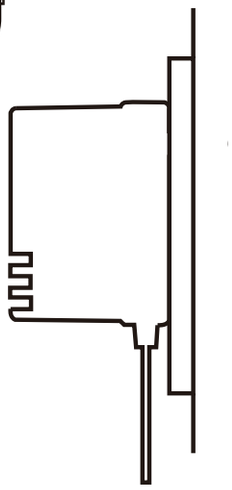


Installation

5 Replacez le volet de protection sur la base.



6 Branchez le contrôleur. Attendez 1 à 2 minutes, le voyant va clignoter lentement (un clignotement à la seconde). Si le voyant est continu ou s'il clignote rapidement (2 fois par seconde), appuyez sur le bouton RST.

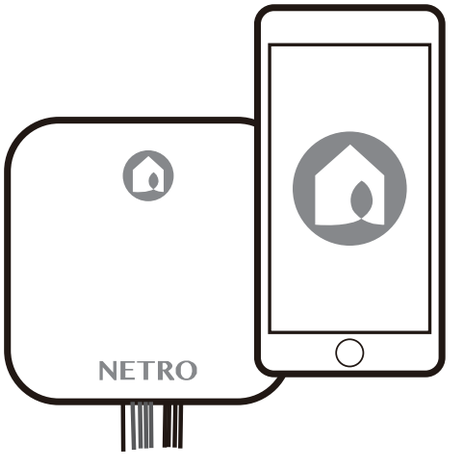


7 Le réseau de votre système Sprite sera en mode Hôte (vous verrez apparaître un réseau WiFi appelé "Netro_IRC_xxx". Ne connectez pas tout de suite votre téléphone à ce réseau. Il vous sera demandé de le faire à l'étape 8 de l'installation.

8 Téléchargez l'application gratuite Netro, et commencez la configuration.

Conseil:

Recherchez "Netro sprite watering" dans Google Play et App Store.



Le voyant LED

Le voyant LED sur votre contrôleur Sprite a trois états possibles :

Clignotement lent (allumé pendant une seconde et éteint pendant une seconde): cela signifie que l'unité est en mode hôte. Cela a lieu lors du premier branchement ou bien lors de la réinitialisation du Sprite ; pendant ce clignotement, le système passe par les différentes étapes de configuration de l'application pour se connecter à votre réseau WiFi.[1]

Voyant continu: cela signifie que l'unité est connectée à votre réseau WiFi.

Clignotement rapide (allumé pendant ½ seconde et éteint pendant ½ seconde): cela signifie que vous avez rentré un mot de passe erroné lors de la première configuration ou bien que la connexion avec le serveur cloud Netro a été perdue.

Le bouton de réinitialisation

Le bouton de réinitialisation est situé sous le volet de protection et se trouve à côté de la prise pour l'adaptateur CA. Le bouton de réinitialisation est marqué des lettres RST. Vous aurez besoin d'une tige pointue, longue et fine pour pouvoir appuyer sur le bouton.

Appui court: pour réinitialiser votre Sprite à son mode Hôte, appuyez sur le bouton une seule fois et moins d'une seconde. Le voyant de votre Sprite devrait alors commencer à clignoter de manière lente quelques secondes plus tard.

Appui long: pour réinitialiser l'unité à ses paramètres d'usine, tenez le bouton appuyé pendant 6 à 8 secondes. Attendez 1 à 2 minutes, le voyant de votre Sprite devrait commencer à clignoter de manière lente.

SPRITE

Controlador de Rega Inteligente

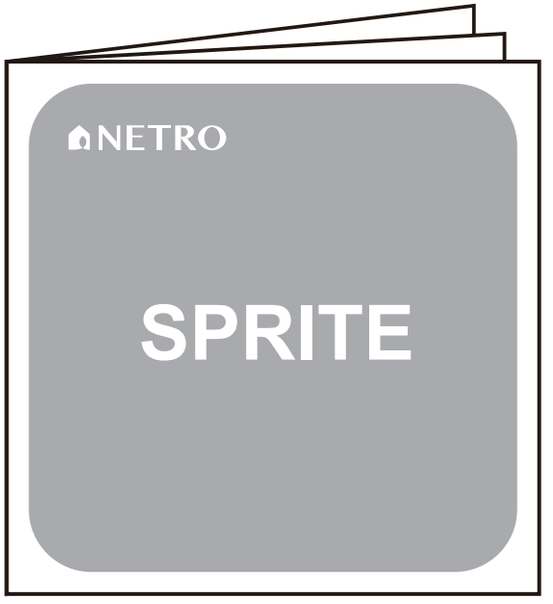
Guía de inicio rápido

- Español -

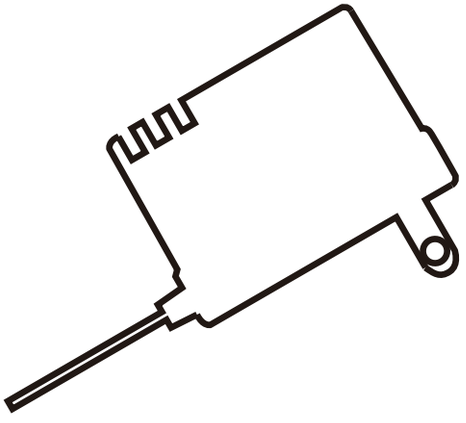
Conheça o Sistema de Rega do Futuro

Contenido

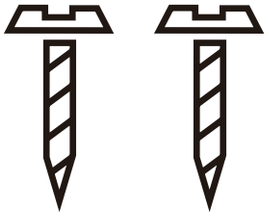
Controlador



Instrucciones



Adaptador de corriente 24V



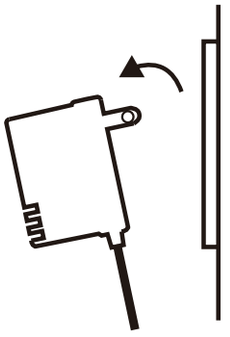
2 Tornillos

Preparación

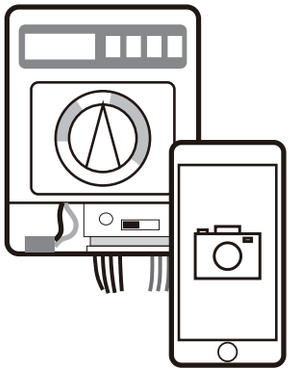
1 Pruebe primero la funcionalidad de su sistema de riego con su controlador de corriente. Si no funciona, asegúrese de que esté reparado antes de instalar el Sprite.

Nota: Si no está seguro sobre el estado de su sistema de rociadores, es posible que desee comprobar si hay zonas en cortocircuito o zonas abiertas. Solo necesita usar un multímetro para medir la resistencia entre el cable común (generalmente blanco) y cada zona. La lectura normal sería 20-60 Ohms. Si la lectura es inferior a 10 ohmios, es posible que tenga un circuito cortocircuitado en el solenoide y, si es mayor de 80 ohmios, es posible que tenga un circuito abierto. Por favor contáctenos o a profesionales de riego para soporte adicional.

2 Desconecte la energía de su controlador de corriente.



3 Tome una foto del cableado en su controlador anterior.
Cuando este conectando a Sprite, esta foto puede ser la referencia.



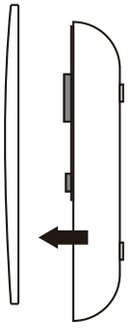
4 Retire su controlador actual.

Instalación

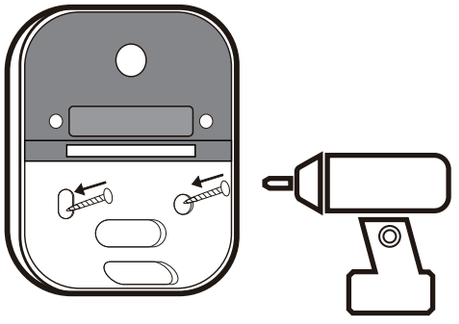
1 Compruebe la intensidad de la señal WiFi en la ubicación donde se instalará su Sprite.
Recomendamos una señal de al menos 2 barras en su teléfono.

Nota: Sprite no es capaz de conectarse a enrutadores Wireless-B (11Mbps). Sprite solo es compatible con los estándares más nuevos, a saber, Wireless-N, Wireless-G y Wireless-AC. Sprite es incompatible con las redes Wi-Fi de 5 GHz. Además, asegúrese de que el SSID (nombre de su hogar Wi-Fi) y la contraseña no contengan caracteres especiales como espacios o comillas.

2 Retire la cubierta frontal de la base.



3 Instale la base de Sprite en la pared utilizando los dos tornillos incluidos. Use la burbuja de aire para posicionarlo horizontalmente.

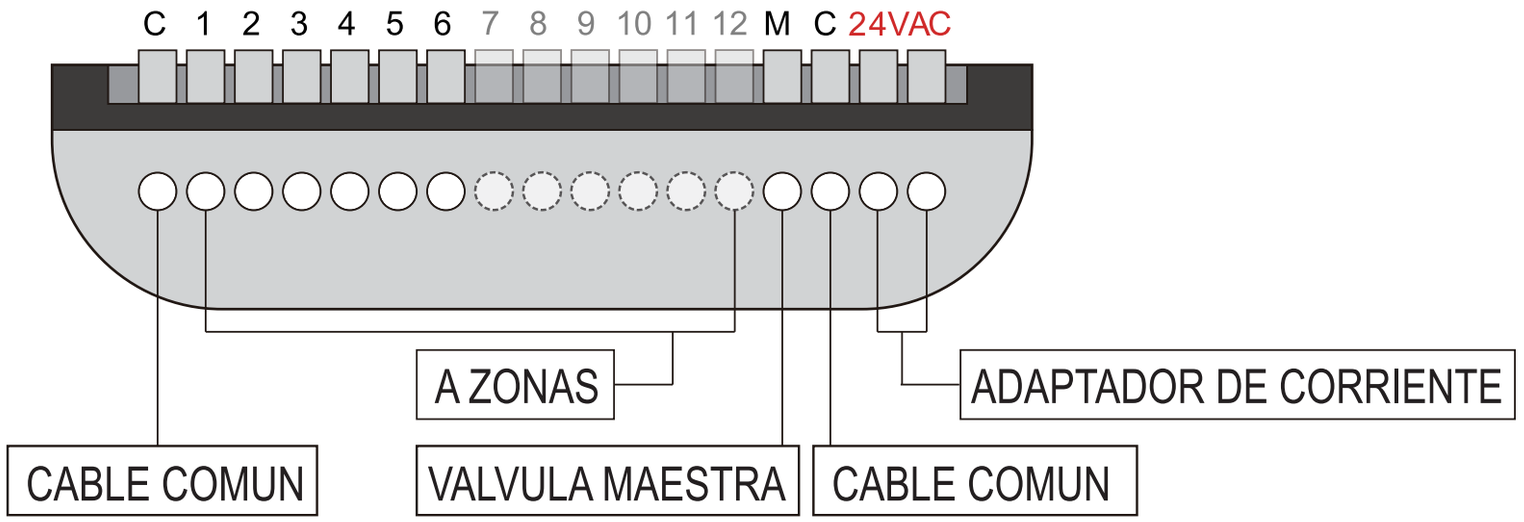


Cableado

4 Reconecte los cables a los terminales en la base de su Sprite.

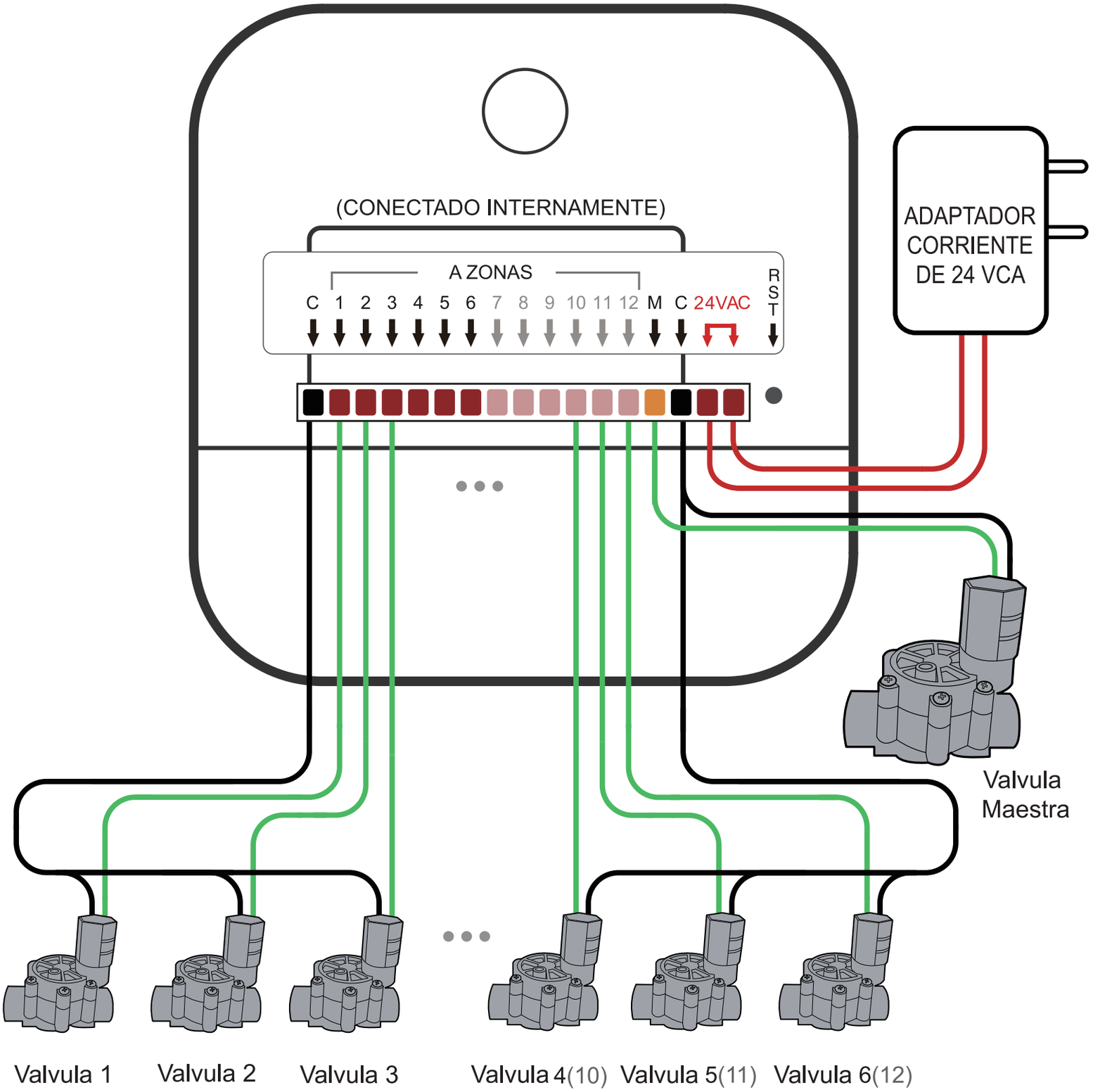
Consejos:

1. Usa la imagen de los cables en tu viejo controlador para ayudarte a recordar su disposición.
2. La ranura llamada "M" es para la válvula maestra o la bomba. En algunos controladores, se le llama "PMV" o "P / MV". Si no tiene una válvula maestra o una bomba, puede dejar esta ranura "M" desconectada.
3. Si el controlador anterior tiene solo un cable común, puede conectarlo a cualquiera de las ranuras "C" y la otra ranura "C" se quedará vacía.
4. Si desea utilizar su adaptador de alimentación anterior que tiene un cable de tierra, puede dejar el cable de tierra abierto.
5. Si el controlador anterior está conectado a un sensor de lluvia, no necesita conectar los cables del sensor porque su Sprite obtiene información meteorológica de la red WiFi.



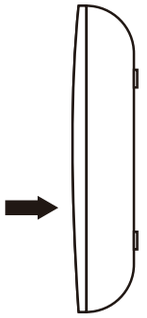
Si no está seguro acerca del cableado, envíe la imagen del cableado en el controlador anterior a support@netrohome.com. Nuestro servicio al cliente le brindará soporte rápido.

Cableado

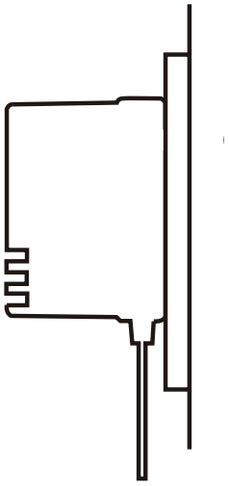

(CONECTADO INTERNAMENTE)
A ZONAS
C 1 2 3 4 5 6 7 8 9 10 11 12 M C 24VAC
RST
ADAPTADOR CORRIENTE DE 24 VCA
Valvula Maestra
Valvula 1
Valvula 2
Valvula 3
Valvula 4(10)
Valvula 5(11)
Valvula 6(12)

Instalación

5 Vuelva a colocar la cubierta frontal en la base



6 Conecte la corriente. Espere 1-2 minutos, la luz parpadeará lentamente (una vez por segundo). Si la luz es estable o parpadea rápidamente (dos veces por segundo), presione el botón RST.

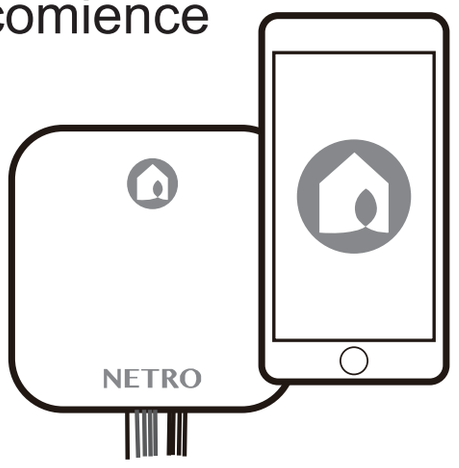


7 La red de su Sprite estará en su modo HOST (verá una red WiFi llamada "Netro_IRC_xxx"). Por favor no conecte su teléfono a esta red Netro_IRC_xxx en este momento. Se te pedirá que lo hagas en el paso 8.

8 Descargue la aplicación gratuita de Netro y comience a configurar.

Consejo:

Busque " Netro sprite watering " en Google Play y App Store



La Luz LED

La luz LED de tu Sprite tiene tres estados posibles:

Parpadeando lentamente (encendido por un segundo y apagado por un segundo): esto significa que la unidad está en modo HOST. Esto sucede cuando primero conectas tu Sprite o lo reinicias, e indica que necesita pasar por los pasos de configuración en la aplicación para conectarte a una red WiFi doméstica.

Sólido: esto significa que la unidad está conectada a la red WiFi de su hogar.

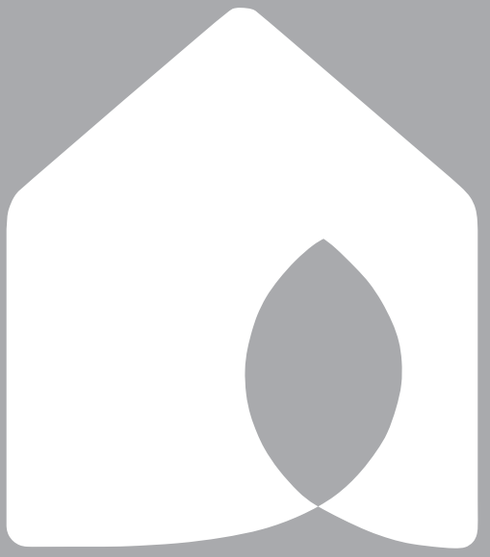
Parpadeando rápidamente (encendido durante 0,5 segundos y apagado durante 0,5 segundos): esto sucede cuando configura su unidad por primera vez y no ingresa la contraseña correcta, o cuando pierde su conexión con el servidor en la nube de Netro.

Botón de Reinicio

El botón de reinicio se encuentra debajo de la cubierta y se encuentra junto a las ranuras de cableado del adaptador de AC. Está marcado RST. Necesitarás un alfiler o un objeto largo y delgado para presionar el botón.

Presione brevemente: para restablecer su Sprite a su modo HOST, simplemente presione el botón una vez por menos de 1 segundo. Tu Sprite debería comenzar a parpadear lentamente en unos segundos.

Pulsación larga: para restablecer la unidad a la configuración de fábrica, mantenga presionado el botón durante 6-8 segundos. Espere 1-2 minutos, la luz de su Sprite debería comenzar a parpadear lentamente.



Netro INC.