DO101-SSR www.thermomart.com

Manual for Wi-Fi plug and play timer

Users should download and install the eWeLink App (available on both Android play store ”eWeLink” and iOS app store “eWeLink-smart home control”)

After installation, register an account with your email address (not phone#) and a password (at least 8 characters). Enter email verification code to register and then login with your account.

Pairing the Device

Firstly, make sure you are close enough to Wi-Fi router and if you have VPN, remove it temporary. Also if your Wi-Fi is 5G, change it to 2.4G temporary. The app only **pairs with 2.4G Wi-Fi** but you can change it back to 5G when pairing is successfully completed. If you couldn’t change your Wi-Fi to 2.4G, please check item 4 in “problems and solutions” section of this manual and you can also check our video on YouTube by searching “DO101 2.4G”.

Plug in DO101-P receiver, wait for 10 seconds to 3 minutes until LED1 blinks slowly and then open eWeLink App. Press and hold the LED1 pairing button on PCB board for 4-7 sec. When the LED light blinks (3 times) & pauses (once) repeatedly, click on the “+” icon on your app and you can release the pairing button. Then select the first pairing method “Quick pairing”. Type your home Wi-Fi ID & password and click next. It takes 1-3 minutes for DO101-P receiver to be paired with your phone and added to your account. You can name the device on the app to complete the process. When the LED1 is on and solid, the device is Online.

If it still doesn’t pair or shows “Offline”, **turn your “Router”, “Cellphone” and “DO101-P” OFF and ON** and try pairing again (check items 1 & 2 in “problems & solutions” section). Also you can check the video on YouTube by searching “pairing DO101”. To make sure the app works correctly, you should hear a clicking sound when you turn the switch ON/OFF by your smartphone or manually by pressing LED1 pairing button. After pairing, the LED1 pairing button can also operate as manual switch for turning OFF and ON pump.

Features and functions

ON/OFF Remote: ON/OFF your pump from anywhere in the world or at home by your iOS or Android Smartphone.

Professional timer: Use scheduled/countdown/loop on the app to ON/OFF Pump at specified times. Pre-set timers can even work if the internet is not connected to DO101-P anymore.

Share Control: You can remotely ON/OFF your pump with multiple Smartphones. Each device has a main user, who can share the device with other people. By downloading the app on another Smartphone you can easily add another remote to your household. The main user can also remotely add, modify, delete or enable each additional user and their authorizations.

Security mechanism: No one can add a registered DO101-P to their Smartphone without main user’s authorization and only the main user has complete access to all features of DO101-P and can share it. If you wish to transfer a registered DO101-P to other users, it should be first deleted from the main user’s app.

Update: This app sends you notifications when a newer firmware or version is available. Please update your app as soon as receiving the notification for using the latest features.

Voice Control: Go to on the first page of your app. By clicking on "More" it shows all the voice control systems that are supported by eWeLink, such as Alexa, Google Home, Google Nest, IFTTT and …. , by clicking on each voice control system, it shows how to add your device to that system. For example download "Google Assistant" app from your phone's app store. Open the app, click on the circle at the top right of the page. Click on + Add and choose "eWeLink Smart Home" from the list. Insert your account registration information. The voice command should be "Ok Google, turn {device name} ON" or OFF.

Setting

By clicking on sign at the top right corner of the app page, you will go to "setting" and there you can edit the device **Name,** update the **Firmware** version and enable **LAN** Wi-Fi for better reception. Turn the **Notification for operation** ON (it sends notification to your cellphone when you ON/OFF pump) Also you can set the **Power-on state** status at ON, OFF or KEEP in case of power outage, when electricity cuts off. By enabling **Inching** mode, each timer event change to ON/OFF mode and you can add your events to 8 ON/OFF and by increasing or decreasing the time by second (max 3600sec=1 hour), you can define the pump operation time. You need to sure LED2 on PCB is ON, enable Inching and change the inching duration. You can check which shared user and when pump has turned ON/OFF from **History record.**

Problems and solutions

There are 3 LEDs. LED1 is for Pairing, Showing WiFi status and Switching on/off manually after pairing. LED2 indicates the working mode. ON: self-locking mode, OFF: inching mode. LED3 shows the status of relay (ON: connected device is ON, OFF: connected device is OFF).

1. DO101-P has been paired and added to the app successfully but stays "Offline"?

The reason can be that **DO101-P is placed too far from the router**, which causes a weak Wi-Fi signal. You can place them together and if it doesn't work, **turn your router, Smartphone and DO101-P OFF and ON** and the problem should be solved. If it is still offline, just delete and add the DO101-P to the app one more time.

2. I cannot pair my Smartphone with DO101-P?

-Place DO101-P and your smartphone close to your router and make sure that your **Wi-Fi is set at 2.4G** (you can set it back to 5G after pairing). Also make sure your Mac address filtering is Off.
-If you have VPN on your Smartphone, remove it temporary.
-Delete the eWeLink app on your Smartphone.
-Turn OFF your **"router" , "Cellphone" and "DO101-P"** all together and turn them back ON after 10 Sec. Make sure LED2 on PCB is ON. Before pairing, wait for 10 sec to 3 minutes until LED1 **blinks slowly**.
-Download the app again (only from the App store or Google play,but not iCloud) and register an account.
-Try to pair your device once more & make sure you will enter correct Wi-Fi password & user name. When you enter the password you need to make sure that there is no blank space after the password, also consider upper & lower cases characters. Check the video on YouTube by searching "pairing DO101".

3. LED3 blinks and pump opens and closes by itself?

There is a loose connection or the adapter is broken. Change the adapter with a new 5V one.

4. I cannot change the Wi-Fi from 5G to 2.4G?

This unit won't be paired if the Wi-Fi is at 5G. So, if you don't see 2.4G in your Wi-Fi list, type your router web address (the numbers like 192.169.0.1) on Google and login to your router admin page (router web address, Username and password is printed at the back of your router & Password can be your Wi-Fi password). Click on "Wireless" (the one that takes you to the wireless setting, not wireless status). Click on the "5G" tab and turn the "Wireless enabled" option OFF temporary and save the changes. After successfully pairing your device with your Smartphone you can change 2.4G to 5G again. You can also check our video on YouTube by searching "DO101 2.4G". If you cannot change this setting, contact your Internet provider for more assistance.

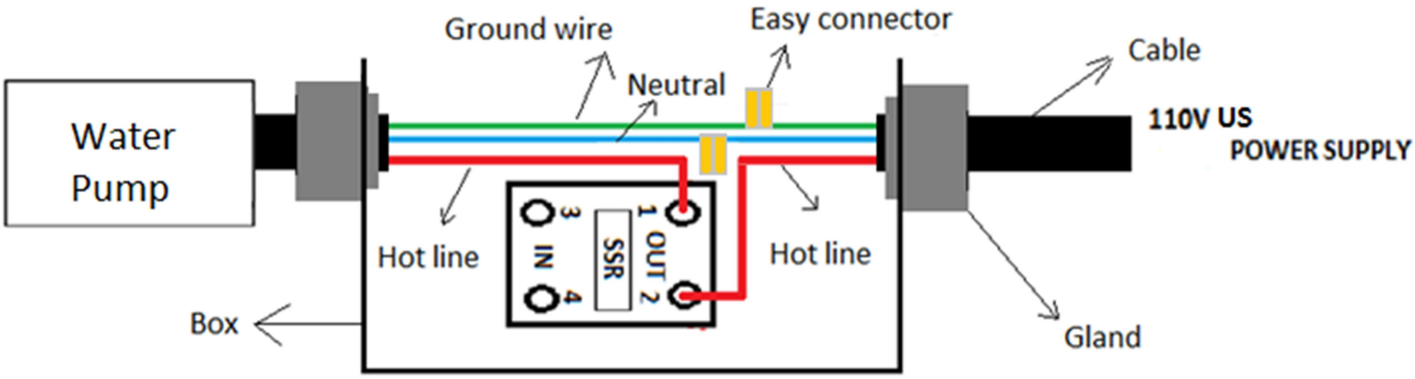
5. When the electricity cuts off or the device is unplugged, the pump will turn ON/OFF when power is back or I plug it again?

The "Power-on State" is set at ON or OFF. Go to the setting and change "Power-on state" to KEEP.

Wiring

IMPORTANT WARNING AND SAFTEY INSTRUCTIONS ATTENTION USER/INSTALLER:

This guide contains important information about the installation, operation and safe use of this product. DANGER! RISK OF ELECTRIC SHOCK, WHICH CAN RESULT IN SERIOUS INJURY OR DEATH. Before attempting installation or service, ensure that all power to the circuit supplying power to the system is disconnected / turned off at the circuit breaker. The pump connection should be performed by a licensed electrician, and must conform to all national, state, and local codes.

After installation your app on your cellphone, you have a simple wiring for connecting your Pump to your Wifi device.
You have the following items in your box:
2 x fork connectors for connecting hotline wires to your SSR outputs 1,2
2 x easy connectors for connecting the ground wires together and neutral wires together
2 x O-ring glands for sealing and tightening the cable (if the diameter of cable is smaller than box gland's holes)
1 x White Silicon sealing strip for water proofing your box (or it is installed on your box cap)

For easy wiring, you need to cut your water pump cable in 2 halves. Bring out the hot line, neutral and ground wires of each cut end. Insert the cables to the box (through the glands) and then connect the hotline of one half to pin 1 of SSR and the hotline of the other half to pin 2 of SSR (110V US hotline is black wire and 220V EU hotline is red wire). Then connect the ground wires of both halves with easy connectors together and Neutral wires with easy connectors together too. For more clarification please check the following diagram. If you use your box outdoor, you need to make sure that all connections and also plugs and sockets are completely sealed.