Manuals+

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INSTALLATION MANUAL

DSE

DM-WFC… – WIFI REMOTE CONTROLS

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WiFi Remote Controls

DM-WFC-1R/2R/4R

<u>Installation Manual</u>

How to install wifi remote and how to use it

What did you buy?

These wifi remote controls are devices that can add remote control via the Internet via WiFi to any electrical device. You can connect these remote controls to your WiFi network and then operate them as you wish with the Tuya home automation app, the most widespread in the world, both in connection local wifi, either through the Internet, when you are not at home.

This manual explains how to install and configure the devices.

Electrical connection
DM-WFC-4R

DM-WFC-4R is an electronic board with 4 NO/NC relays that can be controlled remotely via wifi. The relays They can operate either in a stable (ON/OFF) or impulsive mode, with an actuation time programmable. You can use this remote control board to operate up to 4 electrical equipment up to 10A, such as lighting, alarms, irrigation, etc.
The board also has 4 inputs to connect any local control buttons. In This way you can operate the device either via the app with wifi or with the local switch. The product also has a 433 MHz RF receiver for radio controls with coding 1527.
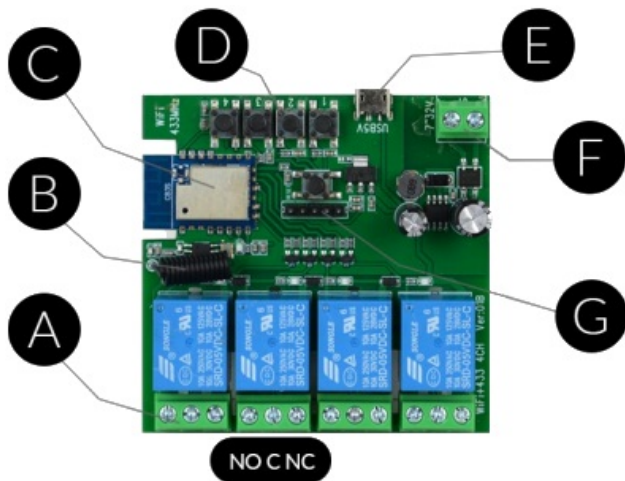
A -Relay for 10A AC/DC

B -RF receiver for radio controls 433MHz encoding 1527 currently not used.

C -WiFi 2.4GHz

D -Buttons for direct control of relays

AND -MicroUSB 5VDC power input

F -Power input 7-32 VDC

G -Inputs for local button commands

INDICATION LED

All remote control cards are equipped with
– A blue status LED for each relay that lights up when the relay is activated
– A blue 2.4GHz WiFi status LED. Flashes quickly when the device is waiting for app configuration.

POWER CONNECTION

The product has two power supply alternatives.

You can connect a 5VDC microUSB power supply to the E socket.

Alternatively, you can connect a direct current of 7 to 32VDC to the F terminal block.

CONNECTING THE RELAYS

The 4 relays can directly control loads up to 10A with a maximum voltage of 250VAC or 30VDC. Each relay has 3 terminals: the central one is COMMON, if you use the terminal on the left you will get a normally open NO contact, if you use the one on the right you will get a NC contact, normally closed. Here is an example of how you can control a current load alternating with a NO contact, i.e. with the load not powered with the command at rest.

Relay operation is configured with the app.
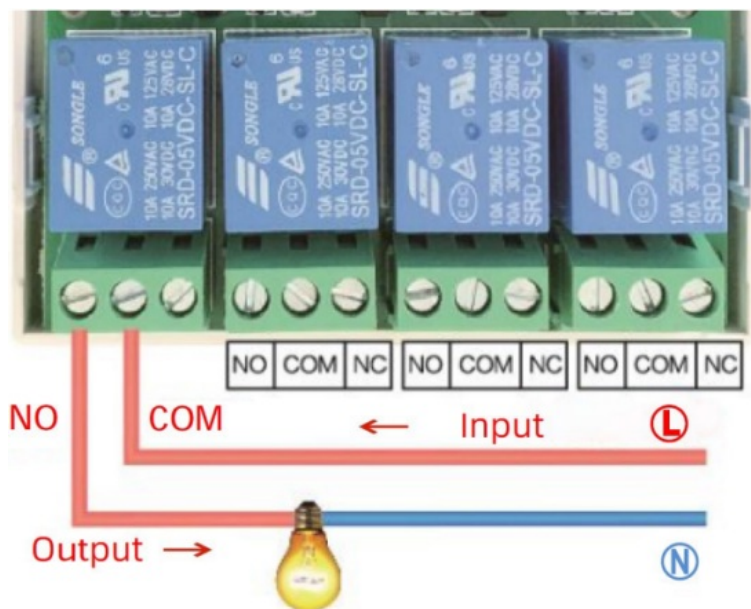

LOCAL BUTTON CONNECTION

The 4 relays on this board are mainly controlled via app, however it is also possible connect local physical controls. For this purpose, there are 5 pins in the center of the board.

The buttons connect between the common pin C and pins 1.2.3.4

You can connect both buttons and ON/OFF switches to these local inputs. You can define the operation of these local commands through the app (impulse for state change or relay that follows the command status) so as to adapt them to the command you have connected.
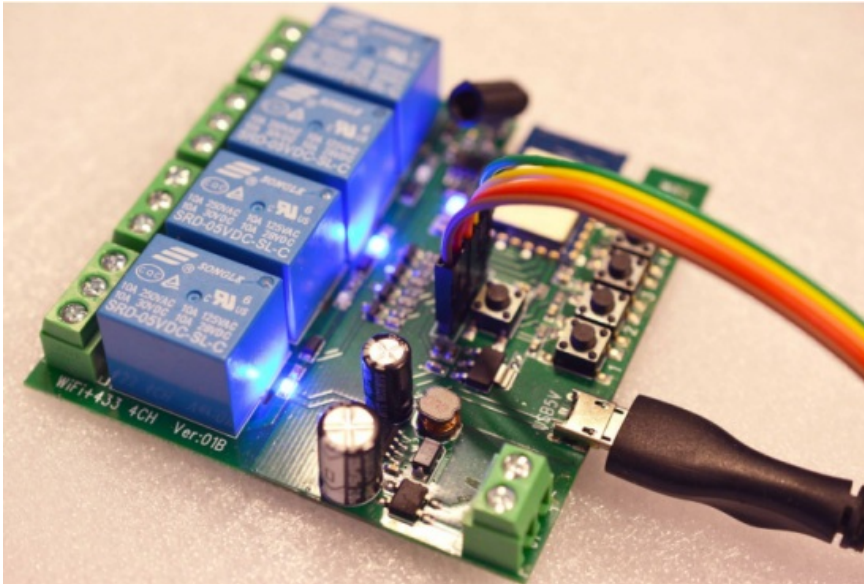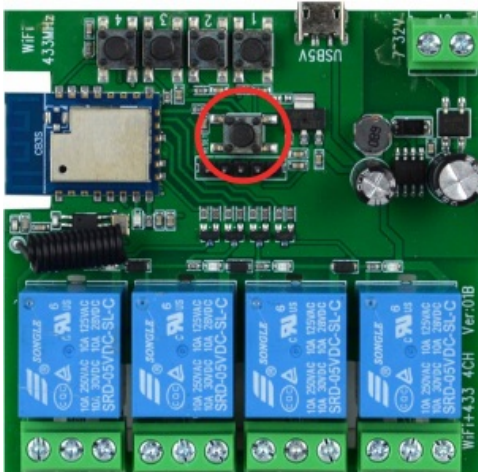
RESET BUTTON

In the center of the board is the reset button. If you hold down the reset button for 5 seconds restore factory settings and the device goes into standby mode app setup with the blue LED flashing quickly.
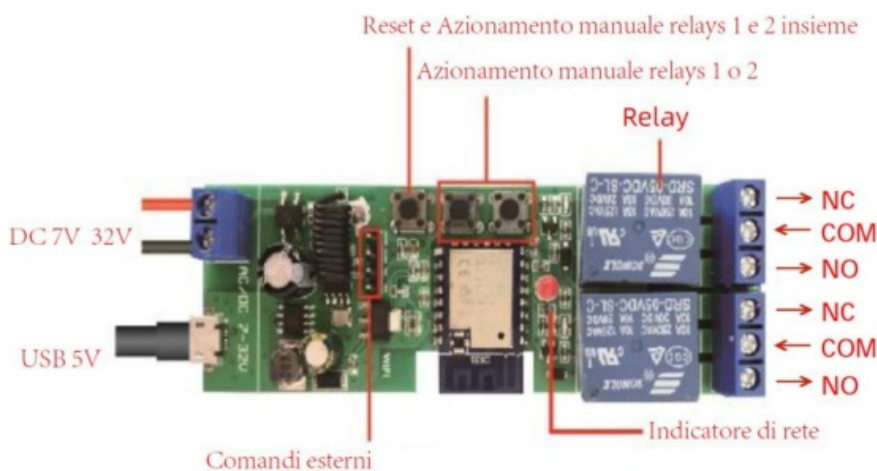
For this reason the reset button is also used for the first installation, to bring the remote control in setup mode.

If you have already paired your device with the app and you reset it, you will first need to delete the device in the app then pair it again.

Electrical connection
DM-WFC-2R

DM-WFC-2R is an electronic board with 2 NO/NC relays that can be controlled remotely via wifi. The relays They can operate either in a stable (ON/OFF) or impulsive mode, with an actuation time programmable. You can use this remote control board to operate up to 2 electrical equipment up to 10A, such as lighting, alarms, irrigation, etc.
The board also has 2 inputs to connect any local control buttons. In This way you can operate the device either via the app with wifi or with the local switch. The product also has a 433 MHz RF receiver for radio controls with coding 1527.

RELAY -Relay for 10A AC/DC NO/NC

NETWORK INDICATOR -2.4GHz WiFi status blue LED. Flashes quickly when the device and waiting for app setup.

MANUAL OPERATION -Buttons for direct control of relays

RESET -Press 5 seconds to reset

USB 5V -MicroUSB 5VDC power input

DC 7V 32V -Power input 7-32 VDC

EXTERNAL CONTROLS -Inputs for relay control with external buttons

POWER CONNECTION

The product has two power supply alternatives.
You can connect a power supply with a 5VDC microUSB socket or alternatively you can connect a direct current of 7 to 32VDC to the F terminal block
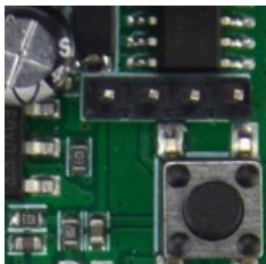
CONNECTING THE RELAYS

Like the previous model, this board also has relays that can control directly loads up to 10A with maximum voltage 250VAC or 30VDC. Each relay has 3 terminals: the central one is COMMON, if you use the terminal on the left you will get a NO contact normally open, if you use the one on the right you will get a NC contact, normally closed.

Here is an example of how you can control an AC load with a NO contact, i.e. with the load not powered with the command at rest. The relay operation is configured with the app.

LOCAL BUTTON CONNECTION

The 2 relays on this board are mainly controlled via app, however it is also possible connect local physical controls. To do this, there are 4 pins in the center of the board. The buttons connect between the common pin C and pins 1 and 2

You can connect both buttons and ON/OFF switches to these local inputs. You can define the operation of these local commands through the app (impulse for state change or relay that follows the command status) so as to adapt them to the command you have connected.

RESET BUTTON

There is a reset button on the board. If you press and hold the reset button for 5 seconds factory reset and the device goes into app setup mode with the blue LED flashing quickly.
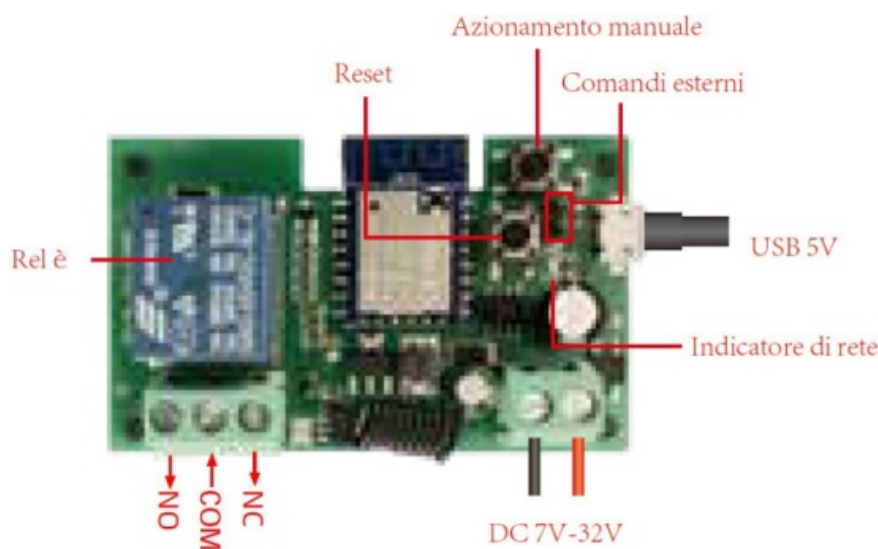
For this reason the reset button is also used for the first installation, to bring the remote control in setup mode.

If you have already paired your device with the app and you reset it, you will first need to delete the device in the app then pair it again.

Electrical connection
DM-WFC-1R

DM-WFC-1R is an electronic board with 1 NO/NC relay that can be controlled remotely via wifi. The relay It can work either in a stable (ON/OFF) or impulsive mode, with an operating time programmable. You can use this remote control board to operate a device electrical up to 10A, such as lighting, acoustic signals, irrigation etc. The card

It also has inputs to connect any local control buttons. In this way You can operate the device either via the app with wifi or with the local switch.

The product also features a 433 MHz RF receiver for radio controls with 1527 encoding.

RELAY -Relay for 10A AC/DC NO/NC

NETWORK INDICATOR -2.4GHz WiFi status blue LED. Flashes quickly when the device and waiting for app setup.

MANUAL OPERATION -Buttons for direct control of relays

RESET -Press 5 seconds to reset

USB 5V -MicroUSB 5VDC power input

DC 7V 32V -Power input 7-32 VDC

EXTERNAL CONTROLS -Inputs for relay control with external buttons

POWER CONNECTION

The product has two power supply alternatives.
You can connect a power supply with a 5VDC microUSB socket or alternatively you can connect a direct current of 7 to 32VDC to the F terminal block
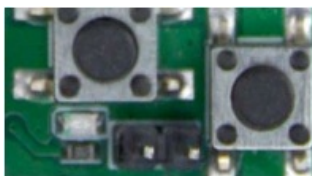
CONNECTING THE RELAYS

Like the previous model, this board also has relays that can control directly loads up to 10A with maximum voltage 250VAC or 30VDC. Each relay has 3 terminals: the central one is COMMON, if you use the terminal on the left you will get a NO contact normally open, if you use the one on the right you will get a NC contact, normally closed.
Here is an example of how you can control an AC load with a NO contact, i.e. with the load not powered with the command at rest. The relay operation is configured with the app.

LOCAL BUTTON CONNECTION

The relay of this board is mainly controlled via app, however it is also possible to connect local physical controls. To do this, 2 pins are available in the center of the board. The button external connects between the two pins
You can connect both buttons and ON/OFF switches to these local inputs. You can define the operation of these local commands through the app (impulse for state change or relay that follows the command status) so as to adapt them to the command you have connected.

RESET BUTTON

There is a reset button on the board. If you press and hold the reset button for 5 seconds factory reset and the device goes into app setup mode with the blue LED flashing quickly.

For this reason the reset button is also used for the first installation, to bring the remote control in setup mode.

If you have already paired your device with the app and you reset it, you will first need to delete the device in the app then pair it again.

Positioning

When choosing the installation position of the product, pay attention to these precautions

CHECK WIFI COVERAGE

Before placing the remote control in its final location, remember that this device must connect to your wifi network in order to work. You should therefore check with the cell phone that in the place where you want to put it there is good coverage of your wifi network.

If you see that the signal is very poor, you should intervene on your wifi network, strengthening it maybe with a repeater.

Do not install the product in an area with poor WiFi signal because it would then be unreliable in its operation.

NO METAL CONTAINERS

Be careful not to close the remote control card in a metal container because this would shield the wifi signal. Instead you can close the lid without any problems plastic of the junction box because it does not provide significant shielding.

Download the Smart Life App

To use the product with your mobile phone you must first connect the device to your wifi network. To do this you need the APPSmart Lifewhich you can download for free from

Google Play or Apple Store. It is a very popular app in home automation that is common to all our devices home automation.

At the first start you must create an account by entering a valid email address. Press CREATE AN NEW ACCOUNT and then wait for the code via email to confirm your registration.
If you don't have an email address you can also use your phone number by pressing Use Phone Number and get verification code via SMS

Once you have created your account you will have your own space in the cloud where you can also upload many WiFi remote controls to control different devices and also our other equipment home automation, such as cameras and intercoms.

Set up the remote control

To use the remote control with your mobile phone you must first connect the device to your network wifi. It is a very easy operation to perform, thanks to the APP you have just downloaded.
Note that the electronic board contains:
1 RESET button
1 BLUE wifi status LED
Locate them using the indications given in the previous chapter, because you will need them in these operations

1 –**Connect your phone to your WiFi network** to which you want to connect the remote control. Check in your phone's wifi networks to be connected to your wifi network and to be able to surf on Internet. Warning: it must be a 2.4 GHz network because the device does not accept wifi at 5GHz. Also make sure you have Bluetooth turned on.

2 –**Put the remote into setup mode.** So that you can add the device to the app it is necessary that it is in configuration mode. The device is in configuration mode when the

Blue wifi status LED flashes fast.

Normally, a new appliance, once powered up, is already in standby mode. configuration, with the blue LED flashing. If you see the blue LED solid, or off, you can put the device into configuration mode by holding down the RESET button for 5 seconds seconds.

3 –**Add the device.** Press the + button at the top right of the app and then choose ADD DEVICE. If the remote is in setup mode, with the blue LED flashing, the automatic search will locate the new device to be configured. Press the ADD button and then, in the following window, choose your 2.4GHz wifi network to connect to the device by entering the correct password. The connection of the device will start concludes in a short time. Once the device is connected to the Smartlife app the blue LED on the card stops flashing

If your device is not detected by the app while searching the network, press the button again.

reset the device for 5 seconds while the app search is in progress, so as to generate a new mating request.
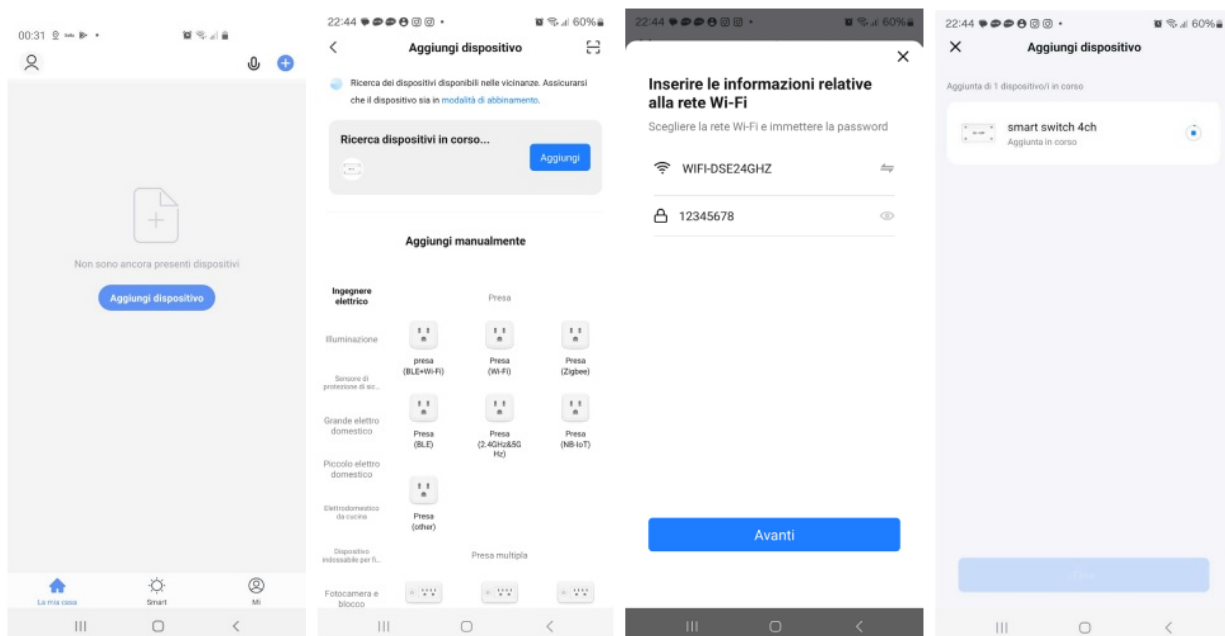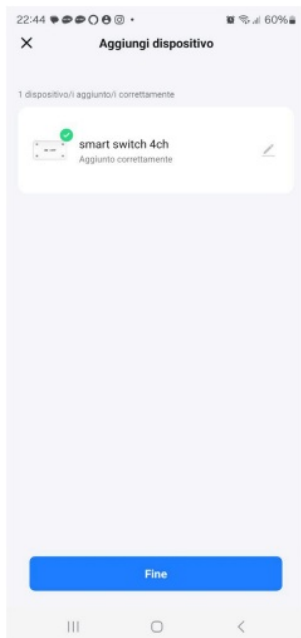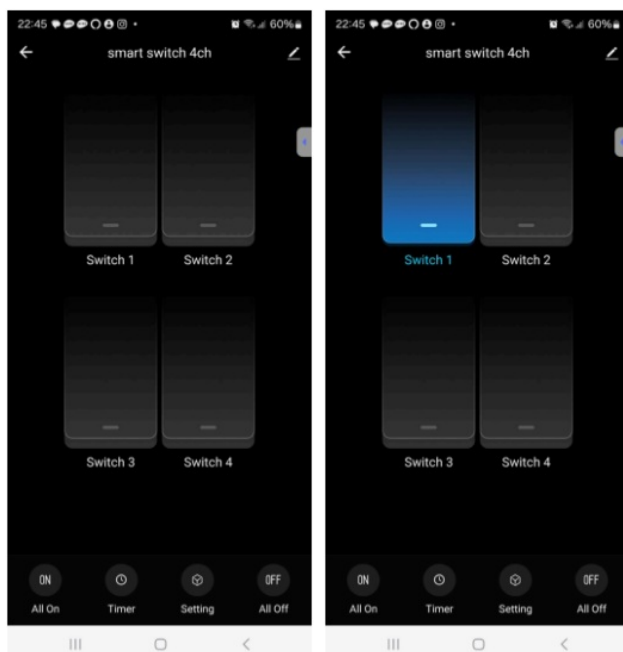
Now the device is connected to the wifi network. If the wifi connection is lost, the device will automatically activate the Bluetooth connection.

Control relays from app

Now that you have configured your device you can control it with the app. Thanks to the P2P cloud server You can also control it through the Internet.

ON/OFF -The remote control relays are controlled simply by pressing the corresponding buttons.

The button icon turns blue when the remote control has been operated (contact open or

closed depending on which clamp you used). The color of the button is a time memory real relay status so that, every time you open the app, you can immediately see the situation in which the relays are located at that time.

RENAME BUTTONS -You can assign a custom name for each relay by holding holding the button for 3 seconds and editing the name.

**ALL ON/ALL OFF** -With these two buttons you activate and deactivate all the relays simultaneously.

Timer

The TIMER button allows you to configure different types of relay timing.

Remember that if you connect the remote control to voice systems, such as Alexa, you can also set timed actions within the voice platform. The timings you set in Smartlife or those of the voice command platform can also coexist, but you must program them so that they do not conflict.

Each relay can have its own specific timings so the first thing you will choose is the switch to be scheduled
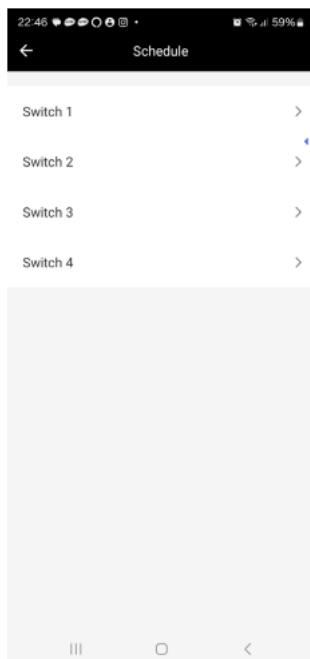

SCHEDULE–You can add automatic activations (ON) and deactivations (OFF) to run on certain days each week. Press the ADD SCHEDULE button, then choose the time of the operation and on which days of the week to perform it. Press SAVE to add the event automatic to the list.
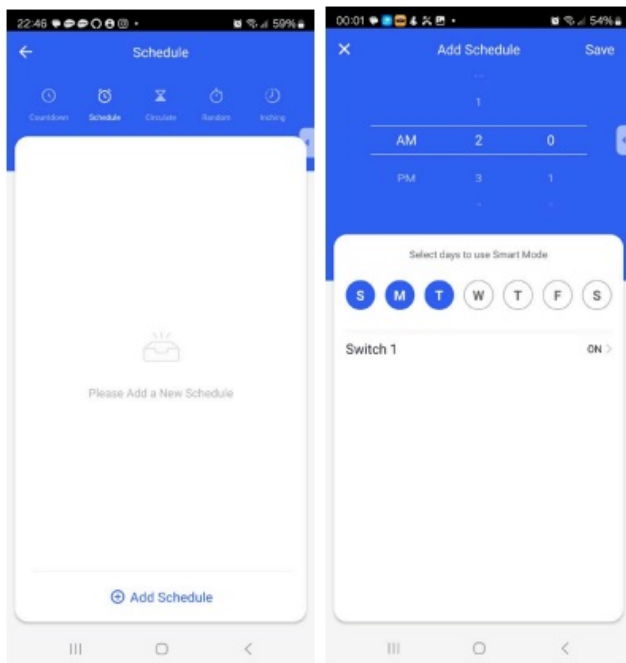
COUNTDOWN -You can start a countdown that will change state when the timer expires to the device. The countdown is a manual function that is active at the moment.
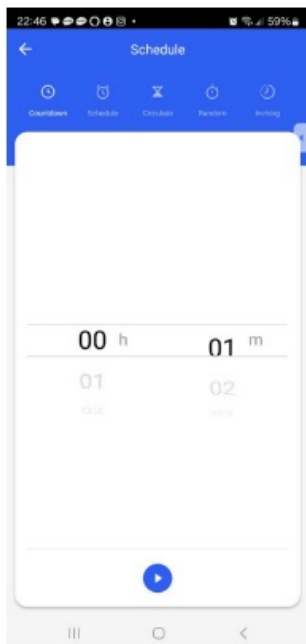
CIRCULATE -You can set activation and subsequent deactivation cycles by creating ON AT X HOURS / OFF AT Y HOURS programming that will repeat every week on the days that you want. It is the typical function to use to automate irrigation, lighting, pool pumps etc.
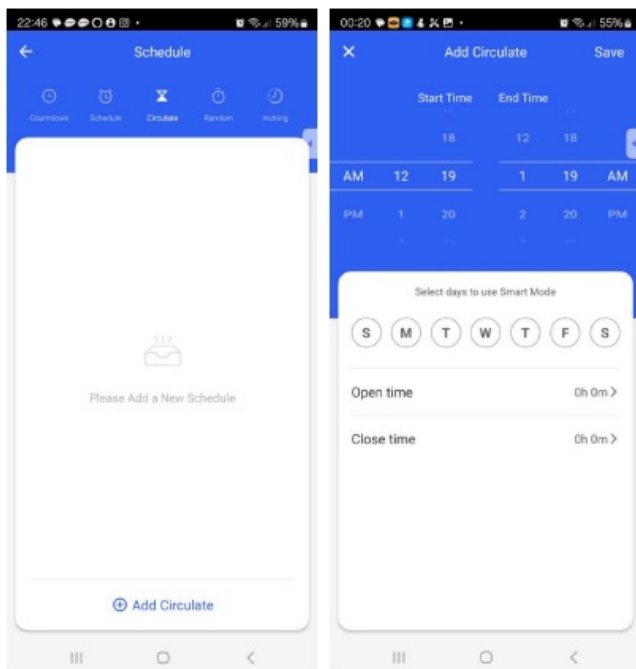
RANDOM -This function is very particular and is used to activate the relays randomly, within certain time slots. This feature is mainly used to make it appear as if being at home when you are actually away, turning on lights or other devices in a way random. You can set time slots and days of the week. Within the set time slots, Smartlife will turn the switch on and off randomly.


INCHING -By setting a time in this section the relay that is activated will deactivate automatically after the set time. You can also use this function to make the relays in impulsive mode, with short actuations of 1 or 2 seconds which are required, for example, to control the electric locks.

Setting

The setting button contains general settings that affect all relays.
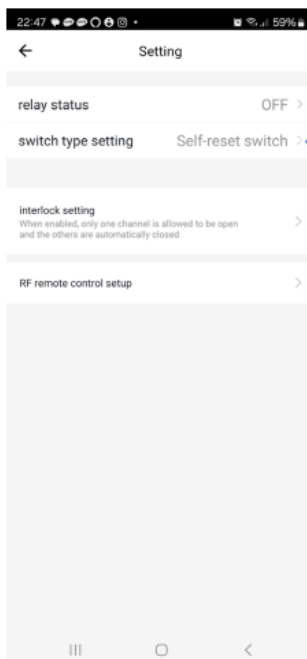
RELAY STATUS -Here you can set the state that the relays should acquire when the device starts, after a power failure occurs. You can choose ON, OFF or MEMORY which means restore the active state before the network failure.

SWITCH TYPE SETTING -Here you can set the electrical operation of the relays when are activated by local commands or buttons on the card. This option does not affect the relay control via app. If you choose ROCKER SWITCH the relays act impulsively and activate only for the time the local button is held down. If you choose SELF RESET

The reset changes ON/OFF OFF/ON state each time the local button is pressed and released.

INTERLOCK SETTING -You can select 2,3 or 4 relays in this section. The selected relays do not can be activated simultaneously. For example, if you activate relay 1 interlocked with relay 2, the 2 will automatically deactivate.

Advanced options

From the relay control page you can access some advanced options by pressing the icon edit (pencil) top right

VOICE CONTROL EQUIPMENT

You can connect your remote control with other voice control devices.

The remote control is compatible with the most common voice control devices such as Amazon Echo (ALEXA) and Google Assistant. So you can also control the relay by giving voice commands.

OFFLINE NOTIFICATION

You can enable this feature to receive a notification when the device is unreachable. for 30 minutes due to, for example, a problem with your Internet line or due to a power failure.

MULTI-CONTROL ASSOCIATION

If you have connected other of our controls and switches to Smartlife, you can make sure that when Pressing one of the 4 control buttons on this device will also automatically activate other devices in your Smartlife account. This way you can combine different activations of your home to a single command. Below for example we are connecting other switches to the switch 2.
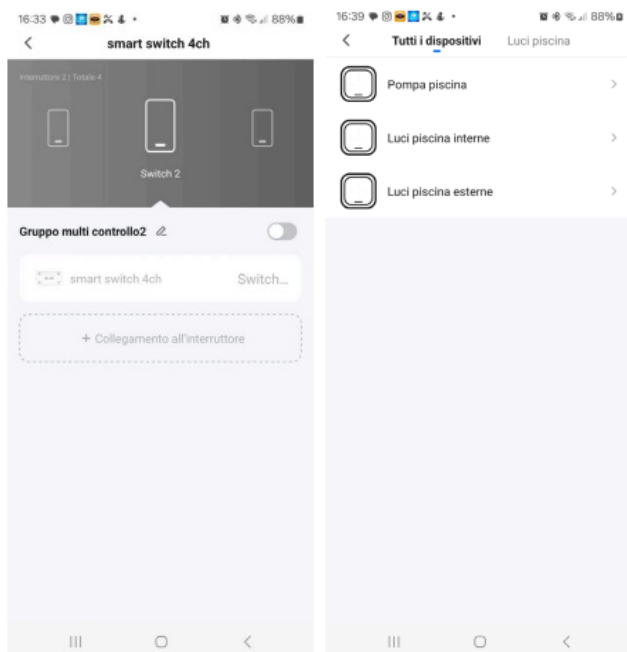
Amazon Alexa Integration

Smart Life integrates seamlessly with Amazon Alexa.
Just download the **SMART LIFE skills** using the Amazon Alexa app to connect Alexa to your Smart Life account. Through the Smart Life skill you can control all our DM Series devices with Alexa voice commands.
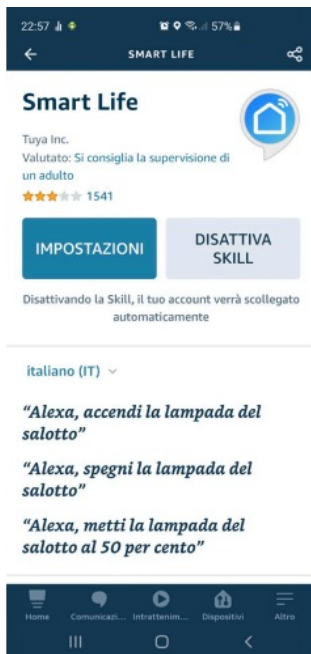
Google Home Integration

Smart Life integrates seamlessly with Google Home

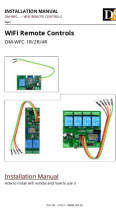You need to download Google Home and connect Smart Life by entering your account credentials.
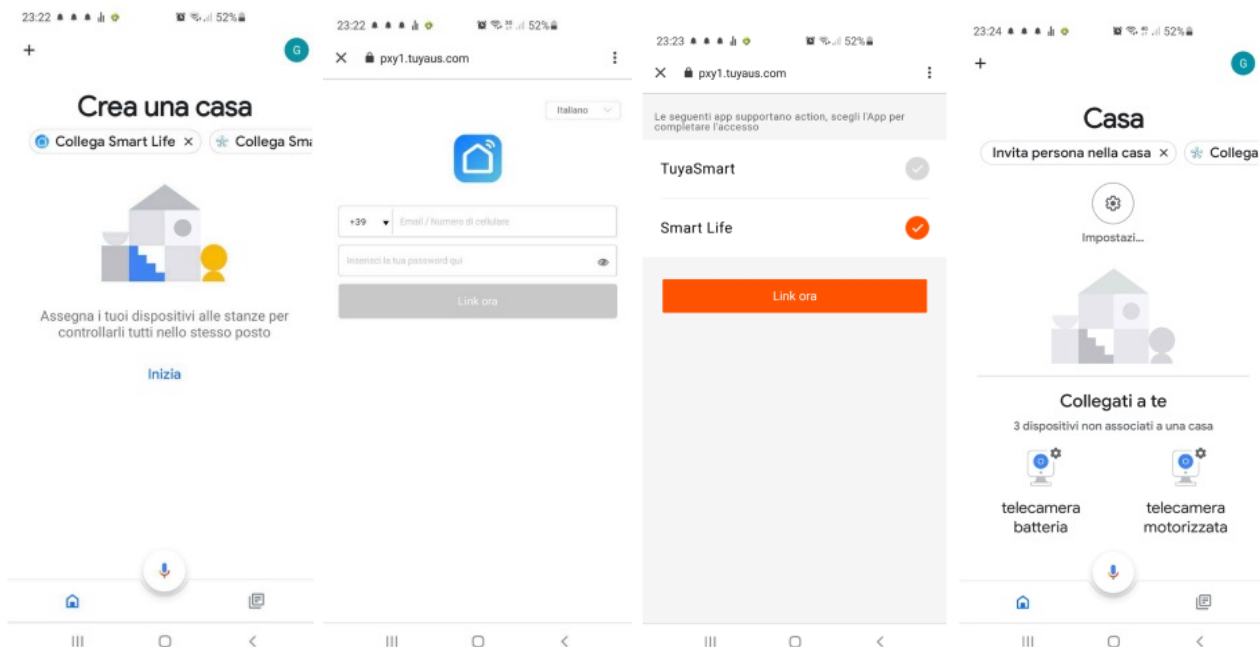
Samsung Integration SmartThings

Smart Life also integrates with Samsung's SmartThings home automation app

You need to connect Smart Life to SmartThings by entering your account credentials.

Documents / Resources

	[DSE DM-WFC-1R WiFi Remote Controls](#) [[pdf](#)] Installation Guide DM-WFC-1R, DM-WFC-2R, DM-WFC-4R, DM-WFC-1R WiFi Remote Controls, DM-WFC-1R, WiFi Remote Controls, Remote Controls, Controls

References

- [User Manual](#)

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🏷 controls, DM-WFC-1R, DM-WFC-1R WiFi Remote Controls, DM-WFC-2R, DM-WFC-4R, DSE, Remote Controls, WiFi Remote Controls

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