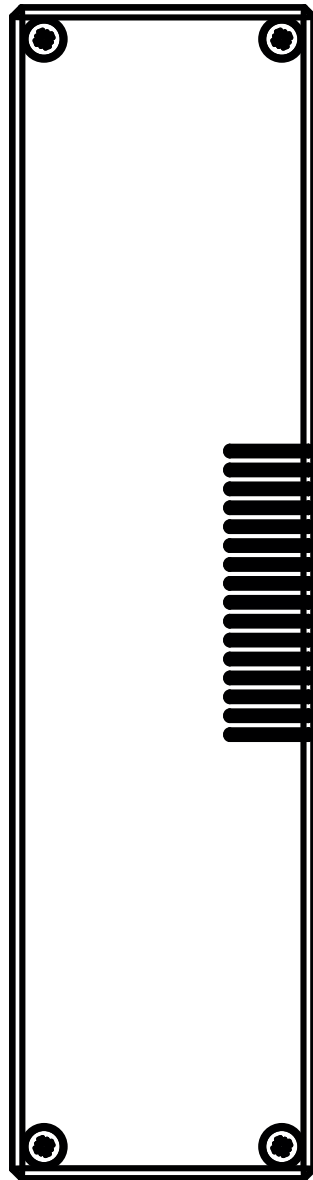
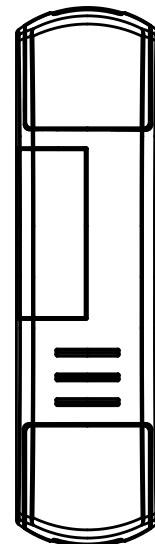


TOP-M400/One

SCREEN-M400/One



Screen-M400/One



Top-M400/One

Electronic control unit for the automation of 4 230Vac motor with built-in limit switch.

230 Vac power supply.

Output for 3 230 Vac motors max 500 W each.

433.92 MHz receiver for radio transmitters.

WiFi connection for OneSmart App.

Top-M400/One: control unit in IP20 casing

Screen-M400/One: control unit in outdoor plastic box IP56

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1 - PRODUCT FEATURES

1.1 TECHNICAL DATA

Code	TOP-M400/ONE SCREEN M400/ONE	SCREEN M400/W8
Power supply (Input)	230 Vac	
Type of load (Output)	4 X 230 Vac motors	
Max load power (Output)	Max 500 W per output	
Number of programmable transmitters	30	
Receiver frequency RF	433.920MHz	
Operating temperature	-10° +55°	
Dimensions (Top-M400)	174 X 46 h 35 mm	/
Dimensions (Screen-M)	310 x 80 h 70mm	

1.2 SENSOR MANAGEMENT

The control unit is designed to manage weather sensors to be connected by wire, which if they intervene can automatically move the motors.

Compatible sensors are:

WIND:

ALARM: the control unit detects a wind speed higher than the one set, for 10 seconds. Then the control unit turns fully opens the motors (settable function) and disables the reception of remote or wired commands until the alarm is over.

ALARM NOT PRESENT/END OF ALARM: the control unit detects a wind speed lower than the one set, for 60 seconds.

RAIN

ALARM: the sensor detects water: then the control unit close the motors (settable function) and disables the reception of remote or wired commands until the alarm is over.

ALARM NOT PRESENT/END OF ALARM: the sensitive part of the rain sensor is dry.

SUN

ALARM: the sensor receives direct light for a period of more than 10 minutes: then the control unit close the motors (settable function) and disables the reception of remote or wired commands until the alarm is over.

ALARM NOT PRESENT/END OF ALARM: the sensor is in the shade or a command is received

ATTENTION:

If more than one sensor is used, there is the possibility that two alarms may intervene which could require conflicting interventions.

In these situations, the control panel applies a priority according to this order:

- wind sensor
- rain sensor
- sun sensor

Example:

The wind alarm goes off and the motors must open, but the sun is present and the motors should also close.

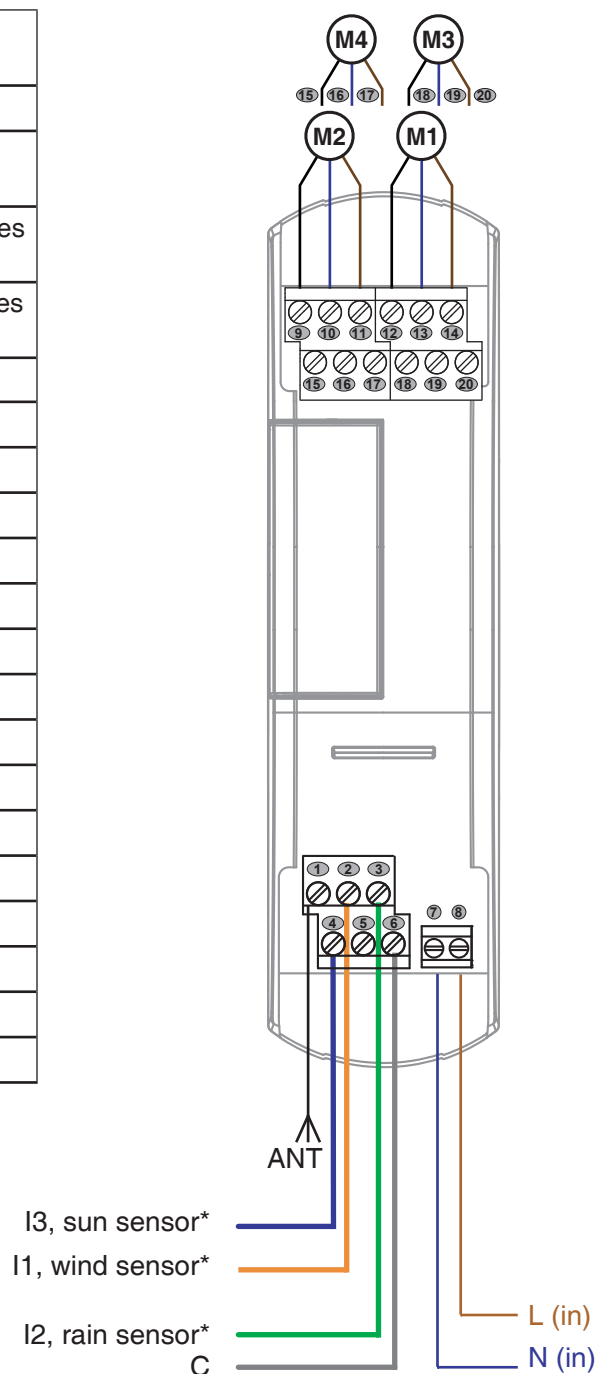
The control unit gives priority to the wind sensor and then opens. If the wind alarm is over, the sun is still present, the motors will close.

2 - ELECTRICAL CONNECTIONS

WARNINGS

- Installation must be carried out only by qualified technicians in compliance with the electrical and safety standards in force.
- All connections must be made with the power turned off.
- Use suitable cables.
- Do not cut through the aerial
- A suitably sized disconnection device must be set up on the electric power line that supplies the product
- Disposal of waste materials must fully respect local standards.
- Do not exceed the load limits shown and use protected power supply units of the correct size for the load.

NUMERO MORSETTO	DESCRIZIONE
1	433,92MHz antenna signal
2*	Input1, default setting = wind sensor, function opens at the detected speed of 10km / h
3*	Input2, default setting = rain sensor, function closes on intervention
4*	Input3, default setting = sun sensor, function closes on intervention
5	Not used
6	Inputs common
7	230V neutral power supply
8	230V phase power supply
9	Motor 2 close
10	Motor 2 common
11	Motor 2 open
12	Motor 1 close
13	Motor 1 common
14	Motor 1 open
15	Motor 4 close
16	Motor 4 common
17	Motor 4 open
18	Motor 3 close
19	Motor 3 common
20	Motor 3 open



* NOTE:

- Connect maximum 500W per output.
- the inputs can be set as wired commands, see paragraph 5.4

3 - SETTING UP CONTROL UNIT

To make the control panel work correctly:

- Make the connections as shown in the diagram on the previous page, if there are sensors, check that the default operation is correct or, alternatively, modify them, see paragraph 5.2.
- If you want to control the system via radio control, associate the radio transmitter with the desired output (s), see paragraph 4
- If you want to control the system via wired commands, set the inputs as buttons, see paragraph 5.4

For a more precise control of the system it is advisable to also set the motor times, see paragraph 5.1

4 - MANAGEMENT WITH REMOTE CONTROL

This procedure lets you programme/delete compatible multifunctional or generic (Wireless bus) transmitters.

Multifunctional transmitters:

With multifunctional transmitters the transmitter control modes depend on the model used.

Refer to the transmitter manual, to the paragraph entitled “commands sent by the transmitter”, bearing in mind that: this is a dimmer device.

Generic (wireless bus) transmitters:

With generic transmitters, the functions associated with the key are those of motor step / step control.

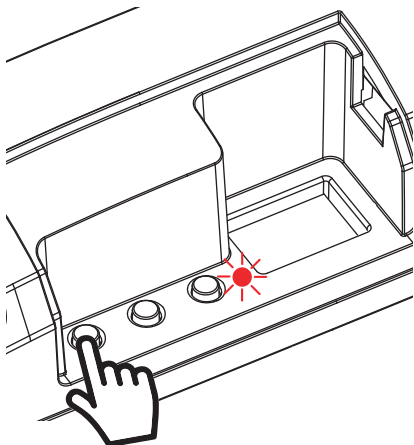
The functions of the generic transmitters can be customized using the procedure in paragraph 8.1.

4.1 - RADIO PROGRAMMING

This procedure lets you programme compatible multifunctional or generic transmitters.

STEP1

Press key 1 as many times as the output number on which you want to program the transmitter



no. of presses	LED colour	Output paired with TX
1	red	Motor 1
2	green	Motor 2
3	blu	Motor 3
4	yellow	Motor 4
5	off	/

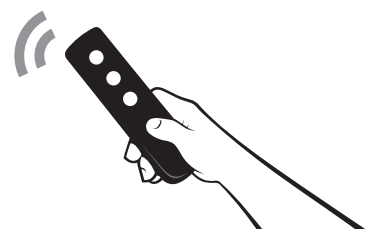
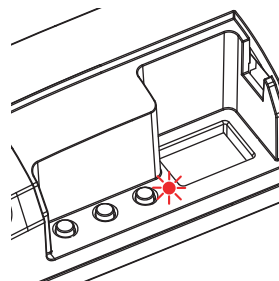


STEP2

Within 10 seconds make a transmission with the transmitter to be saved.

See transmitter manual, the paragraph entitled “transmitter programming” for specify information.

The led makes 3 Flashes and turns off.



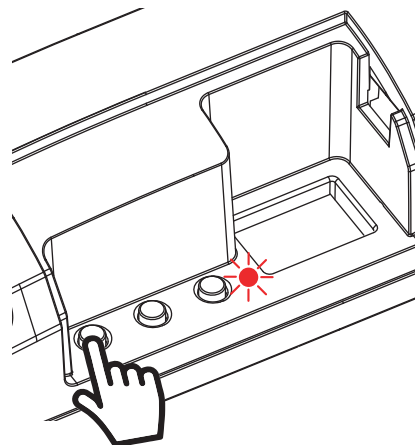
ACTION: Make a transmission with the transmitter **LED:** Flashes 3 times

4.2 - DELETION OF REMOTE CONTROL

These procedures let you delete from the memory transmitters that have already been programmed.

STEP 1

Hold the receiver button 1 down (about 5 seconds.) until the LED begins to Flash



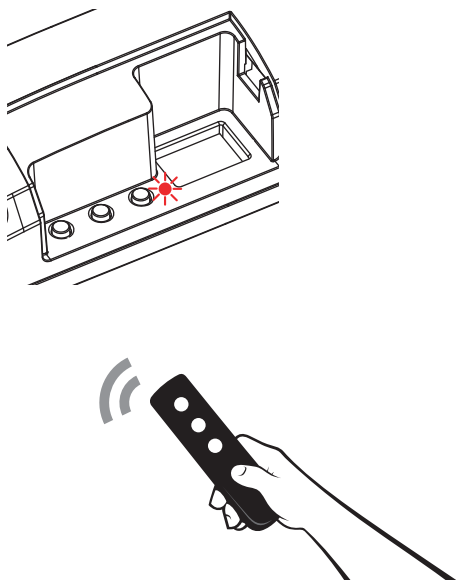
ACTION: Hold tbutton 1 down **LED:** Flashes red

**DELETION OF SINGLE
TRANSMITTER**

**DELETION OF ALL TRANSMITTER
SAVED**

PASSO 2a

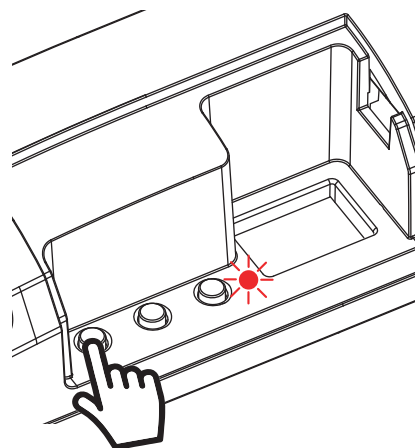
Within 10 seconds make a transmission with the transmitter that you want to delete.
The LED flashes quickly and turns off.



ACTION: Make a transmission with the transmitter
LED: Flashing quickly and turns off

PASSO 2B

Within 10 seconds press the button 1 on the receiver for a short time to confirm the delection of all transmitters.
The LED starts flashing quickly and turns off.



ACTION: Short press of button 1
LED: Flashing quickly and turns off

5 - ADVANCED PROGRAMS

5.1 - CONFIGURATION OF MANEUVER TIMES

Default: 60 seconds

This procedure is used to set the opening and closing manoeuvre time (maximum time that can be set 180 seconds).

NOTE: Before carrying out this procedure check that the direction of operation is correct in relation to the transmitter keys or wired command.

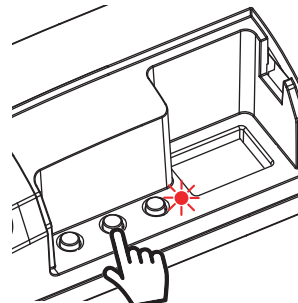
STEP 1

Make a long press of button 2.

The led change color cyclically red, green, blue and yellow.

Release the button corresponding to the motor output for which you want to set the timing

LED colour	Output paired with TX
red	Motor 1
green	Motor 2
blu	Motor 3
yellow	Motor 4

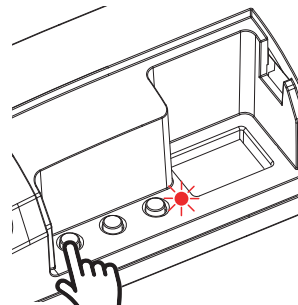


ACTION: long presso button 2 **LED:** changes color cyclically

STEP 2

Press the button 2 on the receiver for a short time and count the number of Flashes emitted by the LED (max 180 Flashes): each Flash represents a second of manoeuvre time.

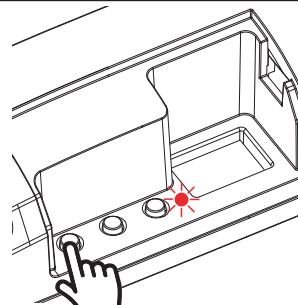
Attention: the control unit Flashes one time every 1 second, example: 120 seconds = 120 Flashes = 2 minutes of manoeuvre



ACTION: Short pressure button 2 **LED:** Flash

STEP 3

To end the count press the button 2 for a short time during the Flash that corresponds to the function desired



ACTION: Short pressure button 2 **LED:** Turns off

5.2 CONFIGURATION OF THE FUNCTIONALITIES OF THE SENSORS

Default:

wind = opens when a wind speed exceeds 10km / h is detected

rain = closes when rain is detected

sun = closes when sun is detected

This procedure is used to set the actions of the motors upon intervention of the sensor alarms

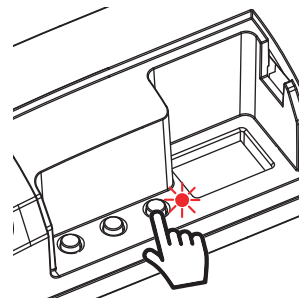
STEP 1

Make a long press of button 3.

The led change color cyclically red and green.

Release the button corresponding to the sensor you want to set

LED colour	Output paired with TX
red	Wind sensor
green	Rain sensor
blu	Sun sensor



ACTION: long presso button 3 **LED:** changes color cyclically

**WIND
SENSOR**

**RAIN
SENSOR**

**SUN
SENSOR**

STEP 2A

OPEN WHEN IT INTERVENES
= Press button 1, the LED starts Flashing to set the wind speed above which to intervene

CLOSE WHEN IT INTERVENES
= Press button 2, the LED starts Flashing to set the wind speed above which to intervene

DEACTIVATE = Press button 3

N° FLASH	DESCRIPTION
1	Intervention 5km/h
2	Intervention 10km/h
3	Intervention 15km/h
4	Intervention 20km/h
5	Intervention 25km/h
6	Intervention 30km/h
7	Intervention 35km/h
8	Intervention 40km/h
9	Intervention 45km/h

STEP 2B

OPEN WHEN IT INTERVENES
= Press button 1, the LED starts Flashing to set the wind speed above which to intervene

CLOSE WHEN IT INTERVENES
= Press button 2, the LED starts Flashing to set the wind speed above which to intervene

DEACTIVATE = Press button 3

STEP 2C

OPEN WHEN IT INTERVENES
= Press button 1, the LED starts Flashing to set the wind speed above which to intervene

CLOSE WHEN IT INTERVENES
= Press button 2, the LED starts Flashing to set the wind speed above which to intervene

DEACTIVATE = Press button 3

STEP 3A

Make a short press during the Flashing corresponding to the desired intervention threshold.

ATTENTION

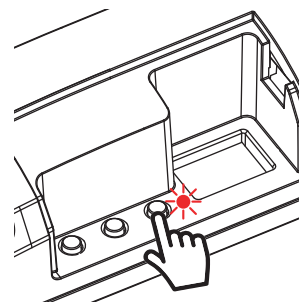
To perform a sensor operation test see paragraph 5.3

With this procedure the sensors are tested.

STEP 1

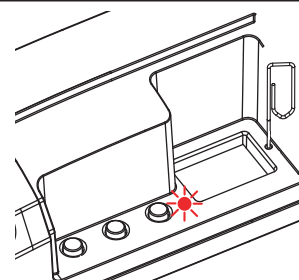
The led change color cyclically red and green.

LED colour	Output paired with TX
red	Wind sensor
green	Rain sensor
blu	Sun sensor



STEP 2

The led start Flashing.



WIND SENSOR

RAIN SENSOR

SUN SENSOR

To carry out the test turn the wind sensor (wind gauge) blades by hand: the control unit will make a brief opening movement followed by a brief closing movement. When the test is completed the control unit turn off the led and will beep 4 times.

STEP 3B

To carry out the test wet the sensitive part of the rain sensor: the control unit will make a brief opening movement followed by a brief closing movement. When the test is completed the control unit turn off the led and will beep 4 times.

STEP 3C

To carry out the test illuminate the sensitive part of the sensor or expose it to the sun: the control unit will make a brief opening movement followed by a brief closing movement. When the test is completed the control unit turn off the led and will beep 4 times.

In any case, the control unit exits the procedure after 60 seconds or when a key is pressed.

After entering the test, this mode is exited:

- if the corresponding sensor does not intervene within 60 seconds (to exit immediately press a button)
- if the corresponding sensor activates, to exit the test the alarm must be deactivated (wind = vanes stopped, rain = sensor dry, sun = sensor in the shade)

5.4 SETTING THE DEVICES CONNECTED TO THE WIRED INPUTS

Default:

Input1= Wind sensor

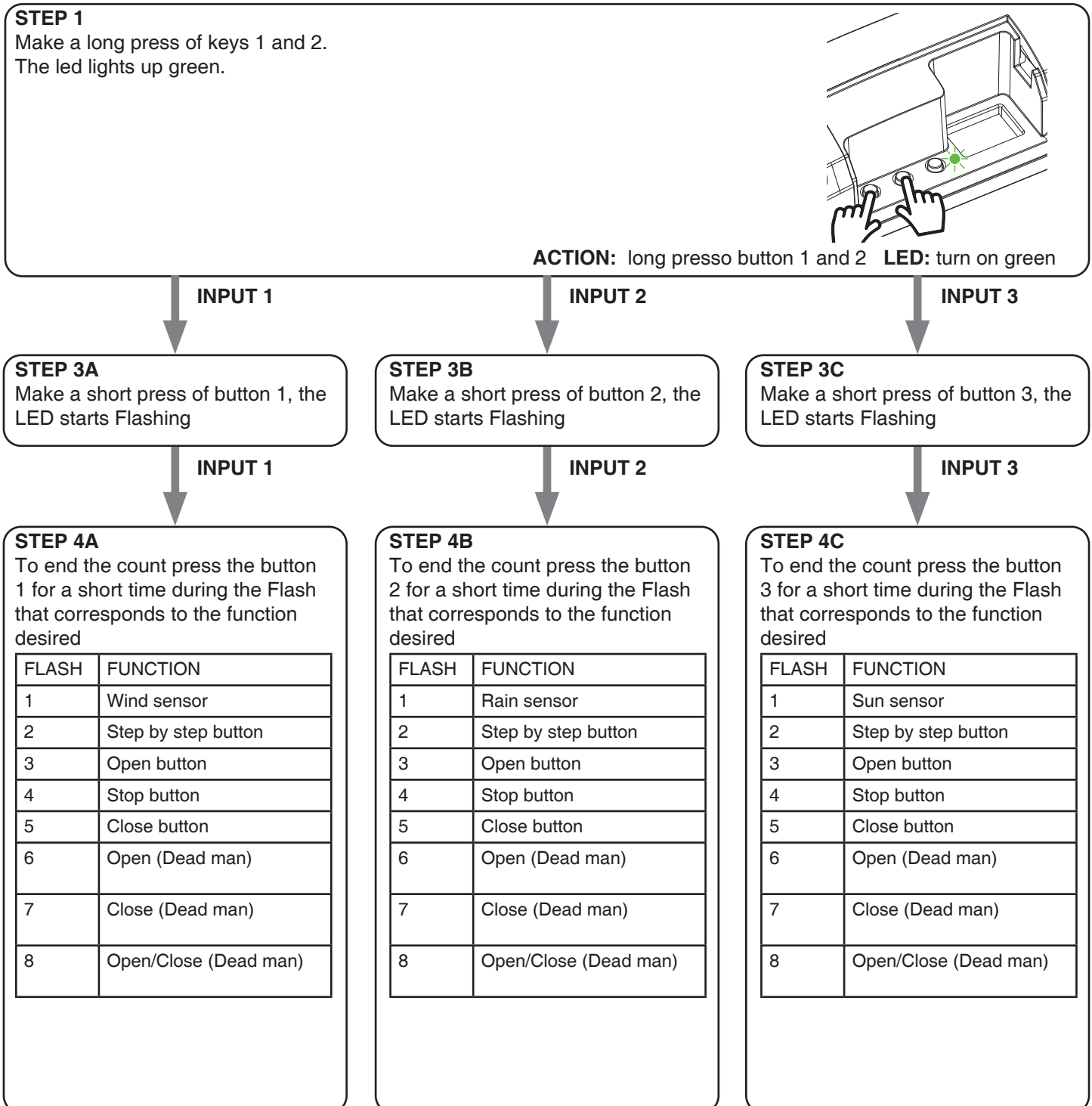
Input2= Rain sensor

Input3= Sun sensor

This procedure changes the type of device connected to the wired inputs. The device can be a sensor or a button dedicated to controlling the movement of the motors with different functions.

ATTENTION:

- by wire, the motors can be controlled in a synchronized way
- the wind sensor can only be set on input 1, the rain sensor on input 2 and the sun sensor on input 3.

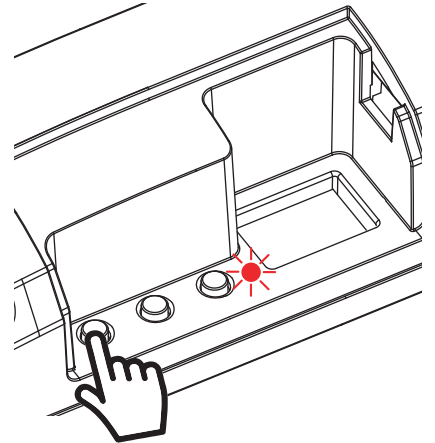


5.5 - RESET OF THE CONTROL UNIT

This procedure let you take the control unit back to factory settings.

STEP1

Hold the receiver button 1 down (about 5 seconds.) until the LED begins to Flash

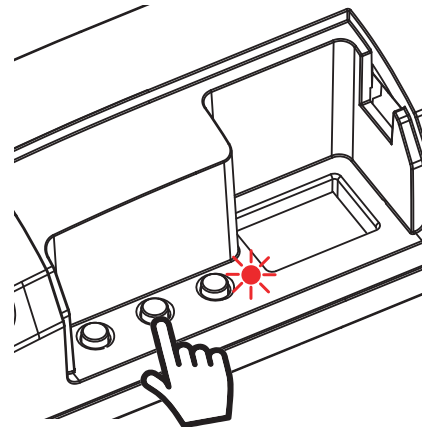


ACTION: Long press of button 1 **LED:** The led Flash quicly



STEP2

Within 10 seconds, make a short press of button 2.
The LED 1 Flashes quickly and turns off.



ACTION: Short press of button 2 **LED:** The led Flash quicly and turns off

6 - INSIGHTS

6.1 - SIGNALING OF ALARMS

The control unit, through the LED and the buzzer on the board, is able to signal any alarms of the active weather sensors.

When the control unit receives a command for the movement of the motor but this is inhibited due to an alarm, a “BEEP” will be emitted from the buzzer and the LED on the board will give the following signal:

Flashes blue for 5 sec = wind alarm intervention

Flashes green for 5 sec = rain alarm intervention

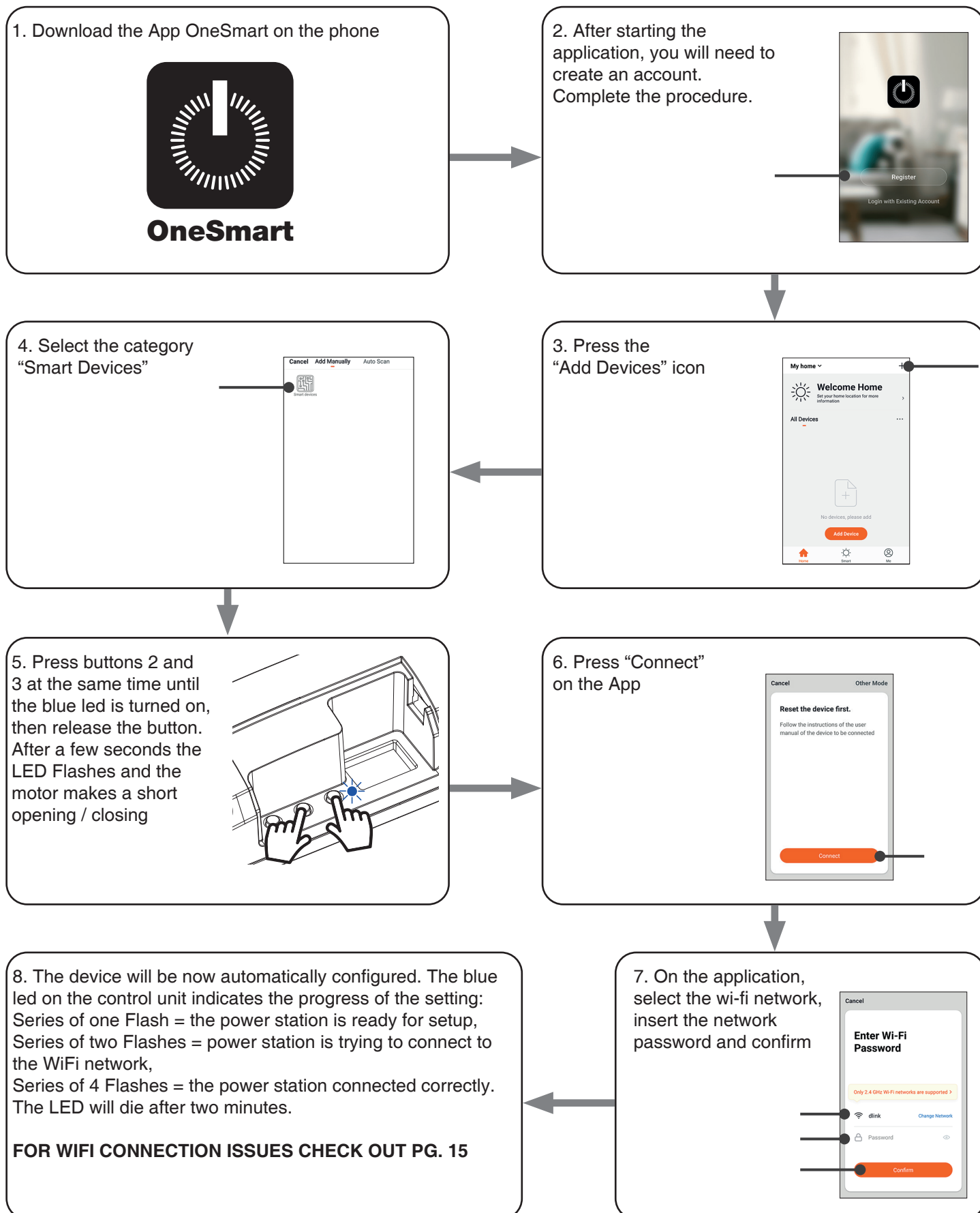
ATTENTION: the sensors can be disabled (and therefore bring the control unit out of the alarm state) with a compatible transmitter.

7 - CONTROL WITH APP ONE SMART

These procedures allow you to manage the light from your device (example: mobile phone) through the application and to control the system remotely.

7.1 - APP CONNECTION

This procedure connects the control unit to the application. It shall be repeated for each control unit on the installation.
ATTENTION: an internet-based 2,4GHz Wi-Fi (no 5GHz) network is required for this operation.



8 - INSIGHTS

8.1 – ISSUES WHEN CONNECTING THE CONTROL UNIT WITH WIFI

If you're having problems connecting the control unit to the router, we suggest to:

FIRST CHECKS:

- check if the network used to connect the control unit is running at 2.4GHz (not 5GHz)
- the smartphone you use must be connected to the same WiFi on which you want to connect the device
- please check if the entered password is correct

STEPS TO DO:

- close the app and try again to connect the device
- if possible try with another smartphone to check if it works

If the problem is not fix, there may be some settings in your router that make the network incompatible with the device. To check and change these settings it's necessary to access the router settings.

As soon as you access the router settings (it depends on the model of router you have) try to check and set these parameters:

WIFI FREQUENCY BAND

some routers generate a network that is set automatically at a frequency of 2.4GHz or 5GHz, depending on the device you are connecting with. When you are trying to connect the device through your OneSmart account, your smartphone may be connected automatically at the frequency band of 5GHz, failing the connection with your device.

It's therefore necessary to access the router settings and set the 2.4GHz as the main network frequency to use.

Otherwise it's possible to create two different WiFi networks, one for the 2.4GHz and one for the 5GHz band, and during the pairing phase make sure your smartphone is connected to the 2.4GHz network.

WIFI SECURITY SETTINGS

some routers could have default security settings not compatible with the device.

Please find out which security protocol type your Wi-Fi router is and change it to:

WI-FI SECURITY:

SECURITY TYPE: WPA2
ENCRYPTION TYPE: AES



V1.0

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