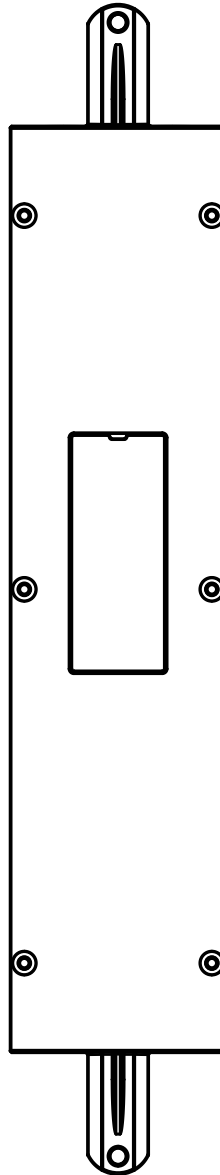


TKM-S230 SERIES



Box complete with power supply, electronic control unit and wiring dedicated to the automation of tubular motors with integrated stroke control (with micro-switches or internal electronics)

Power supply: 230Vac.

Output: 230Vac motors.

Predisposition for connection of the wind and rain sensor.

Radio receiver for transmitters and WiFi module for management with OneSmart application.

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1 - PRODUCT FEATURES

1.1 TECHNICAL DATA

FEATURES COMMON TO ALL MODELS	
Power supply (Input)	230Vac
Maximum load power (Output)	Tubular motors with integrated micro-switch limit switch= 250W Tubular motors with limit switch managed by internal electronic card= 350W
N° of programmable transmitters	30
Working temperature	-10° +55°
Dimensions (box only)	287 X 53 h 26 mm
Degree of protection	IP66

TKM-S230 W4 / 2 C / WR

**SERIES
PRODUCT**

MOTOR OUTPUT

Code	Motor output
2	2
4	4

TYPE OF MOTOR CONNECTORS

Code	Type
C	Cable
0	None*



C



0

* The version without output wiring is not provided for the 4-motors model

TYPE OF WIRELESS COMMUNICATION

Code	Radio transmitter	WiFi App 2,4GHz
W4/	433MHz	OneSmart
W8/	868MHz	OneSmart
R4/	433MHz	/
R8/	868MHz	/

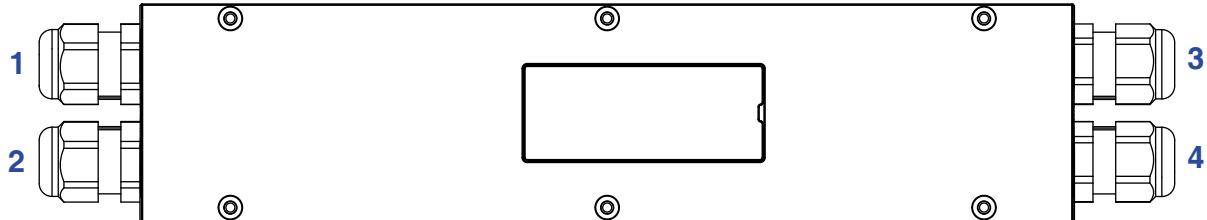
INPUTS FOR SENSORS

Code	Inputs for sensors provided
WR	Wind and rain
WS	Wind and sun
RS	Rain and sun

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.

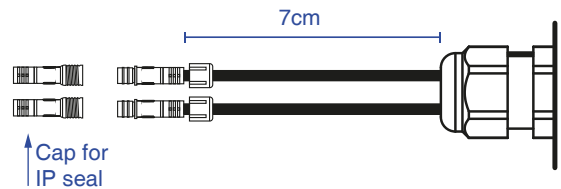


1 230V power cable input.



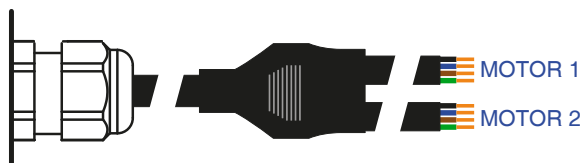
BLUE WIRE = Neutral
BROWN WIRE = Phase
YELLOW/GREEN = Earth

2 Rain and wind sensor cable entry



3 Motor output 1 and 2

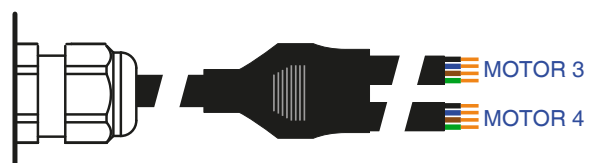
ISOLATE NON-USED WIRES
INDIVIDUALLY BEFORE POWERING
THE SYSTEM ON



BLACK WIRE = Towards 1 motor (L1)
BLUE WIRE = Common (N)
BROWN WIRE = Towards 2 motor (L2)
YELLOW/GREEN = Earth

4 Motor output 3 and 4

ISOLATE NON-USED WIRES
INDIVIDUALLY BEFORE POWERING
THE SYSTEM ON



BLACK WIRE = Towards 1 motor (L1)
BLUE WIRE = Common (N)
BROWN WIRE = Towards 2 motor (L2)
YELLOW/GREEN = Earth

ATTENTION: unused cables must be insulated to ensure IP sealing

3 - SETTING UP CONTROL UNIT

- Make the connections in paragraph 2
- If necessary, set the motor type, see paragraph 5
- Program the ride, see paragraph 6.1
- Pair a remote control (paragraph 7.1) or the application (paragraph 8) to control the movement of the motors

4 - USE

WARNINGS: Before using the board it is necessary to program the working time of the motor, see paragraph 6.

4.1 - CONTROL DEVICES

Radio command

To use the system with a remote control, you must have a compatible one and associate it with the procedure in paragraph 7.1.

Once associated, refer to the user manual of the remote control itself for its functions.

WiFi command

To use the system with the application it is necessary to have a WiFi network with internet access and then carry out the association procedure with the procedure in paragraph 8.

Wired command

The wired commands are provided in the terminal block of the electronic control unit but there is no wiring external to the box.

The control unit has two inputs to drive the motors in a synchronized manner with an open and close function.

4.2 - INTERVENTIONS OF WEATHER ALARMS

With the default settings, the wind and rain sensors are enabled and have the same interventions on all outputs.

There are provisions for connecting the wind and rain sensors with a connector.

The input for the sun sensor is provided in the terminal block of the electronic control unit but there is no wiring external to the box and is not active.

Sensor/alarm intervention mode

ATTENTION

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

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

Wind/Rain/Sun

Wind

ALARM: the control unit detects a wind speed higher than the set one. Subsequently it completely opens all the motors (action that can be set with a dedicated procedure)

ALARM NOT PRESENT/END OF ALARM: the control unit detects a wind speed lower than the set one for 5 minutes.

Rain

ALARM: the sensor detects water, then completely closes all the motors and disables the reception of commands until the alarm ceases.

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

Sun

The sun sensor is provided in the terminal on the board but there is no connector external to the box.

SUN OVER THRESHOLD ALARM (LIGHT): the sensor detects a brightness greater than that set for a period of 5 minutes. It then completely shuts down all the engines.

SUN ALARM BELOW THRESHOLD (LIGHT) the sensor detects a brightness lower than that set for a period of 5 minutes. Subsequently it completely opens all the engines.

ALARM NOT PRESENT/END OF ALARM: There is no alarm not present situation as it is always either above the threshold or below the threshold. However, it is always possible to move the motors freely, after a command the sensor status is ignored for a default time of 2 hours (value customizable with dedicated procedure).

Note

- **The default sensor actions may not be correct** as each type of automation (e.g. awning or vertical screen) or the mechanical characteristics of the awnings themselves may require different movements. Always check the operation of the sensors. To change its behaviour (open, close or deactivated), see paragraph 9.3

- With the control unit in alarm it is possible to exit this state which prevents the motor from moving, by deactivating the corresponding sensor via radio, via buttons on the card or via the application.

5- SETTINGS OF THE CONNECTED MOTORS

5.1 - SETTING THE NUMBER OF CONNECTED MOTORS

Default: 4 motors

ATTENTION:

Every time the following procedure is carried out, the control panel:

- Deletes all programming carried out (radio programming, model of the connected engine, travel programming, input settings...)
- Eliminate any associations with WiFi networks

Changing the number of connected motors modifies:

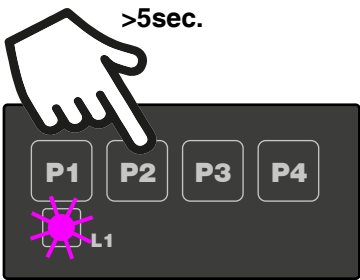
- The number of outputs on which it is possible to associate a transmitter with the procedure in paragraph 7
- The number of devices displayed on the WiFi application

PROCEDURE

STEP 1

Keep the P2 button pressed (about 5 seconds).
The LED lights up cyclically purple/blue.

Release when it is purple



STEP 2

Briefly press the button corresponding to the desired setting:

Button	Number of outputs set
P1	1 motor
P2	2 motors
P3	3 motors
P4	4 motors

The control unit emits a number of flashes equal to the number of outputs set.

5.2 - SETTING THE MODEL OF THE CONNECTED MOTORS

Default: 4 motors with integrated micro-switch limit switches

PLEASE NOTE:

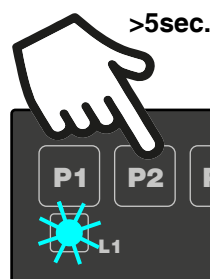
- Every time the connected motor model is modified it is necessary to learn the new manoeuvre times with the procedure in paragraph 6.1. The correct engine model is required to perform this procedure correctly.
- The outputs on which the setting can be made in step 2 depend on the setting in paragraph 5.1.

PROCEDURE

STEP 1

Keep the P2 button pressed (about 5 seconds).
The LED lights up cyclically purple/blue.

Release when it is light blue.



STEP 2

Briefly press the button corresponding to the desired setting:

Button	Motor output
P1	Motor 1 setting
P2	Motor 2 setting
P3	Motor 3 setting
P4	Motor 4 setting

The LED begins to Flash, press the button again during the Flashing corresponding to the desired setting:

Number of Flashes	Motor model
1	Tubular motors with integrated microswitch limit switch
2	Somfy tubular motors with limit switch managed by internal electronic board
3	Cherubini tubular motors with limit switch managed by internal electronic card
4	Nice tubular motors with limit switch managed by internal electronic card

The control unit emits a number of flashes equal to the number of outputs set.

NOTE

If you use a motor with on-board electronics not included among those listed, you can use it by carrying out:

- The procedure for setting the open limit switch and closed limit switch proposed by the motor manufacturer using temporarily connected buttons
- Setting the motor model as "Tubular motors with integrated micro-switch limit switch"
- Carrying out the travel programming procedure in paragraph 6

6 - MOTORS WORKING TIME SETTING

Default: no programmed stroke, the motor moves with the operator present via radio and wire. Commands via WiFi inhibited.

This procedure is necessary to learn the start and end points of the motor stroke.

Travel programming can be done in 3 ways: with buttons on the card, via application or via radio.

Attention, these modes are equivalent to each other, it is sufficient to program the stroke once with the most convenient tool based on the installation.

6.1 - MOTORS WORKING TIME PROGRAMMING WITH ON-BOARD BUTTONS

Requirements: access the programming area located under the cap of the electronic control unit.

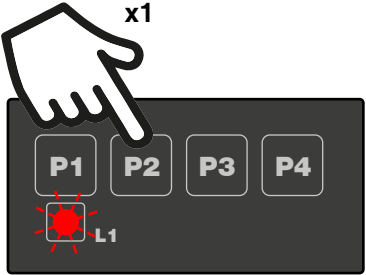
Note: Based on the settings in paragraph 5.1, in step 1 only the colours corresponding to the enabled motors will be visible.

PROCEDURE:

STEP 1

Make short presses on the P2 button. With each press the LED changes color:
Red= Motor1
Green= Motor2
Blue= Engine3
Yellow= Engine4

Position yourself on the LED corresponding to the motor whose stroke you want to program



STEP 2

Briefly press the P3 button to reset the existing travel.
The LED flashes white and then turns solid red.

STEP 3

Note: By holding P1 pressed I open, by holding P2 pressed I close (SEE NOTES AT THE BOTTOM OF THE PROCEDURE*).

The LED is lit steadily red: bring the motor to full opening and confirm the position with a short press on P3: the LED flashes white and then lights up steadily green.

STEP 4

Note: By holding P1 pressed I open, by holding P2 pressed I close

The LED is lit green: bring the motor to complete closure and confirm the position with a short press on P3: the LED flashes white and then lights green.

* If instead of opening the motor closes, exit the procedure with a short press on P4, then invert the motor phases in the connections.

This is important for the sensor intervention logic which by default is the following:

CORRESPONDENCE “SENSOR INTERVENTION”/”DIRECTION OF MOVEMENT		
	Open, P1 button, “tx up arrow”	Closes, P2 button, “tx down arrow”
Wind alarm	X	
Rain alarm		X
Sun alarm below threshold (dark)	X	
Sun alarm above threshold (light)		X

A priori of the direction set in this phase it is possible to modify the type of intervention (opens, closes or deactivated) of each sensor with the procedure in paragraph 9.3

NOTE

- If the procedure is not completed, the control unit exits programming after 30 seconds.
- During this procedure any sensor alarms have no effect
- To change the stroke repeat the procedure
- the default actions of the sensors may not be correct as each type of automation (e.g. curtain or vertical screen) may require different movements. **Always check the operation of the sensors.**

6.2 - MOTORS WORKING TIME PROGRAMMING WITH RADIO CONTROL

Requirements:

- Have associated the control unit with a compatible transmitter (see transmitter manual)
- Having set the correct connected motor model with the procedure in paragraph 5.2

PROCEDURE:

STEP 1

With the associated transmitter, send the travel programming command (see transmitter manual).
The buzzer on the board emits a series of two beeps.



STEP 2

With the UP and DOWN commands of the transmitter, bring the motor to full opening and confirm the position with the STOP command.
The buzzer on the board emits a series of three beeps.



STEP 3

With the UP and DOWN commands of the transmitter, bring the motor to complete closure and confirm the position with the STOP command.
The buzzer on the board emits a long beep. The race is scheduled.

NOTE

- During step 1 of the procedure, if the transmitter is multi-channel, make sure to select the channel associated with the motor you want to program
- If a channel of a transmitter is combined with multiple motors, this programming cannot be carried out
- If the procedure is not completed, the control unit exits programming after 30 seconds.
- To change the stroke repeat the procedure
- The default actions of the sensors may not be correct as each type of automation (e.g. curtain or vertical screen) may require different movements. **Always check the operation of the sensors.**

6.3 - MOTORS WORKING TIME PROGRAMMING WITH WIFI APP

Requirements: You have associated the control panel with a WiFi network, see paragraph 8, and have a mobile phone with access to the Onesmart account of this system.

Inside the user interface of the application, in addition to a window for sending commands, there is a section dedicated to programming the control unit, see paragraph 8.6.

On this screen you can:

- Set the connected engine model
- Carry out the race programming

NOTE

- If the procedure is not completed, the control unit exits programming after 30 seconds.
- To change the stroke repeat the procedure
- the default actions of the sensors may not be correct as each type of automation (e.g. curtain or vertical screen) may require different movements. **Always check the operation of the sensors.**

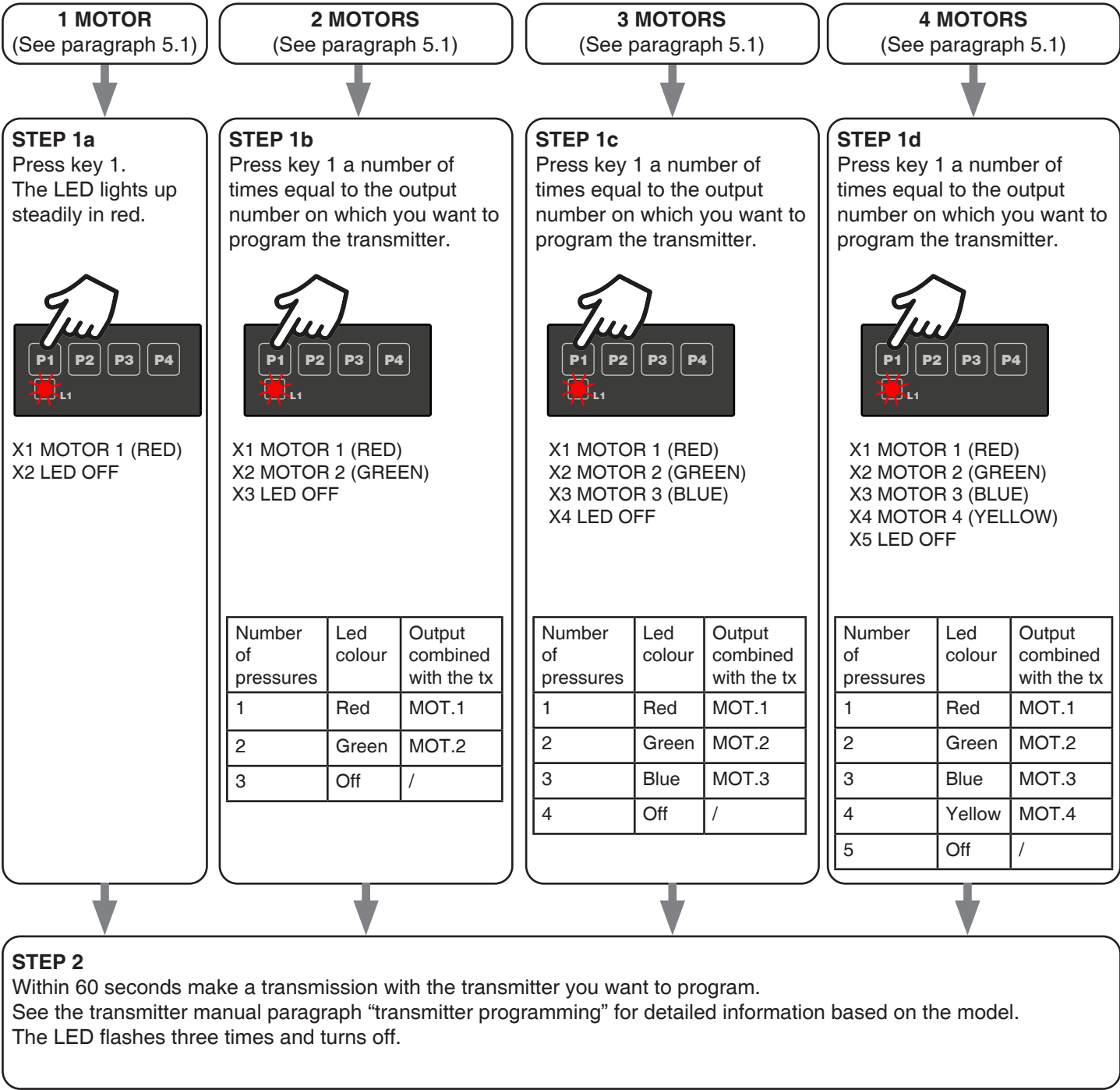
7 - TRANSMITTER PROGRAMMING

With the following procedures it is possible to pair a compatible transmitter with the control unit or delete transmitters already associated.
Programming and deleting a new transmitter can be done in 3 ways: with buttons on the card, near the control unit or via the application.

7.1 - PROGRAMMING OF THE TRANSMITTER WITH BUTTONS ON THE BOARD

Requirements: access the programming area located under the cap of the electronic control unit.
Attention: based on the settings in paragraph 5.1, only the colors corresponding to the enabled motors will be visible.

PROCEDURE:



7.2 - PROGRAMMING OF THE TRANSMITTER NEAR THE CONTROL PANEL - HB80-PRG200

Requirements: being able to remove and apply line voltage to the box and have an HB80-PRG200 series transmitter

STEP 1

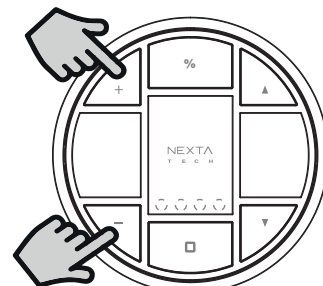
Create the desired channels in the transmitter based on the devices you want to control (see transmitter manual).

STEP 2

Disconnect and restore 230Vac voltage to the box.

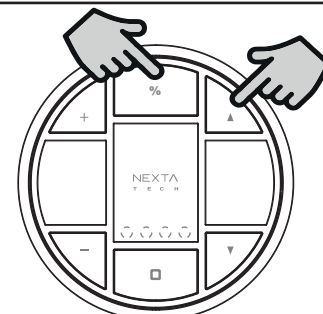
STEP 3

Using the “+” and “-” keys, select the channel of the transmitter you want to associate on the display.



STEP 4

Press the “%” and “up arrow” keys at the same time.
The 4 LEDs on the transmitter light up steadily



1 MOTOR

(See paragraph 5.1)

2 MOTORS

(See paragraph 5.1)

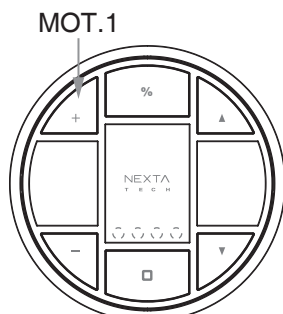
3 MOTORS

(See paragraph 5.1)

4 MOTORS

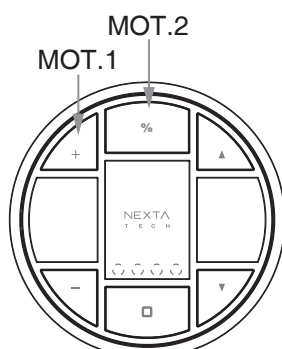
(See paragraph 5.1)

STEP 5a



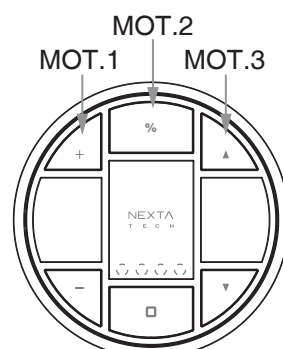
With reference to the figure: press the “+” button (MOT.1)

STEP 5b



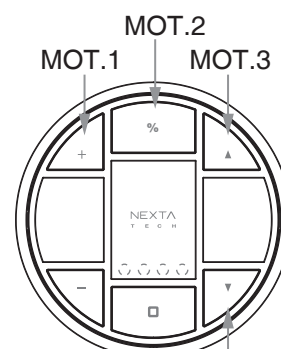
With reference to the figure: press the button associated with the output of the control unit you want to control.

STEP 5c



With reference to the figure: press the button associated with the output of the control unit you want to control.

STEP 5d



With reference to the figure: press the button associated with the output of the control unit you want to control.

NOTE:

- After restoring power to the system, the procedure (steps 3, 4 and 5) must be completed within 15 seconds
- The outputs to which a transmitter can be associated depend on the setting in paragraph 5.1.
- If this procedure is carried out with a key already associated, this is eliminated from the memory

7.3 - PROGRAMMING OF THE TRANSMITTER NEAR THE CONTROL UNIT - ECO-6L

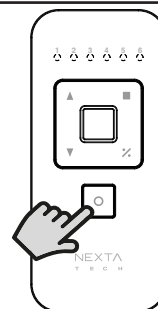
Requirements: being able to remove and apply line voltage to the box and have an ECO-6L series transmitter

STEP 1

Create the desired channels in the transmitter based on the devices you want to control (see transmitter manual).

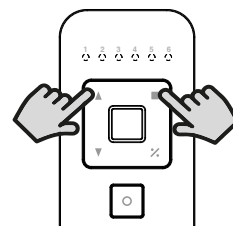
STEP 2

With the “circle” button select the channel of the transmitter you want to associate



STEP 3

Press the “up arrow” and “square” keys at the same time.
The 6 LEDs on the transmitter light up steadily



1 MOTOR

(See paragraph 5.1)

2 MOTORS

(See paragraph 5.1)

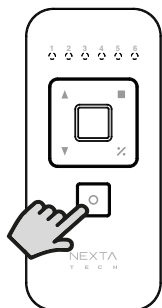
3 MOTORS

(See paragraph 5.1)

4 MOTORS

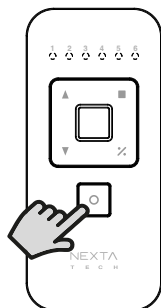
(See paragraph 5.1)

STEP 4a



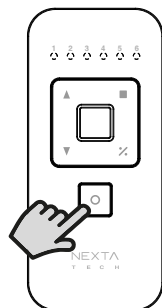
Press the “circle” button until the number 1 is selected on the LEDs (motor 1)

STEP 4b



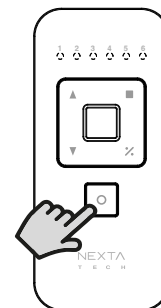
Press the “circle” button until the following is selected on the LEDs:
- Number 1 for motor 1
- Number 2 for motor 2

STEP 4c



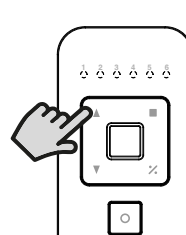
Press the “circle” button until the following is selected on the LEDs:
- Number 1 for motor 1
- Number 2 for motor 2
- Number 3 for motor 3

STEP 4d



Press the “circle” button until the following is selected on the LEDs:
- Number 1 for motor 1
- Number 2 for motor 2
- Number 3 for motor 3
- Number 4 for motor 4

Press the “up arrow” key to confirm.



NOTE:

- After restoring power to the system, you must complete the procedure (step 2, 3, 4 and 5) within 15 seconds
- The outputs to which a transmitter can be associated depend on the setting in paragraph 5.1
- If this procedure is carried out with a key already associated, this is eliminated from the memory

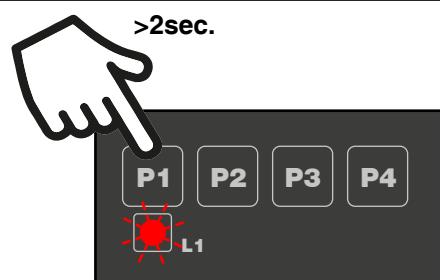
7.4 - PROCEDURE FOR DELETING ALL TRANSMITTERS WITH BUTTONS ON THE BOARD

Requirements: access the programming area located under the cap of the electronic control unit.

PROCEDURE:

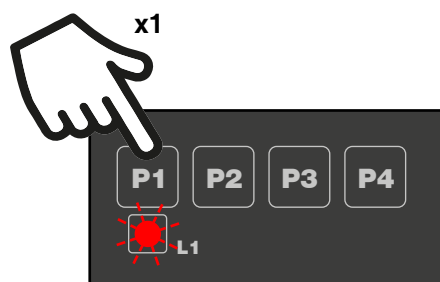
STEP 1

Keep the P1 button pressed until the red LED flashes



STEP 2

Briefly press the P1 button.
The red LED flashes quickly and turns off.



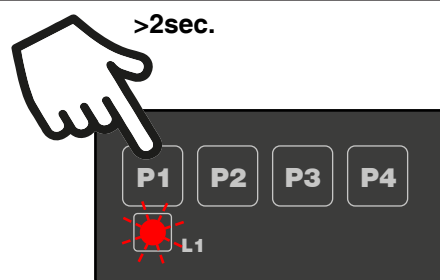
7.5 - PROCEDURE FOR DELETING A SINGLE TRANSMITTER WITH BUTTONS ON THE BOARD

Requirements: access the programming area located under the cap of the electronic control unit.

PROCEDURE:

STEP 1

Long press the P1 button until the red LED flashes.



STEP 2

Within 30 seconds, send any radio command (e.g. open) with the transmitter you want to associate.
The red LED flashes three times and turns off.

7.6 - PROGRAMMING OF TRANSMITTERS WITH WIFI APPLICATION

Requirements: You have associated the control panel with a WiFi network, see paragraph 8, and have a mobile phone with access to the Onesmart account of this system.

Inside the user interface of the application, in addition to a window for sending commands, there is a section dedicated to programming the control unit, see paragraph 8.6.

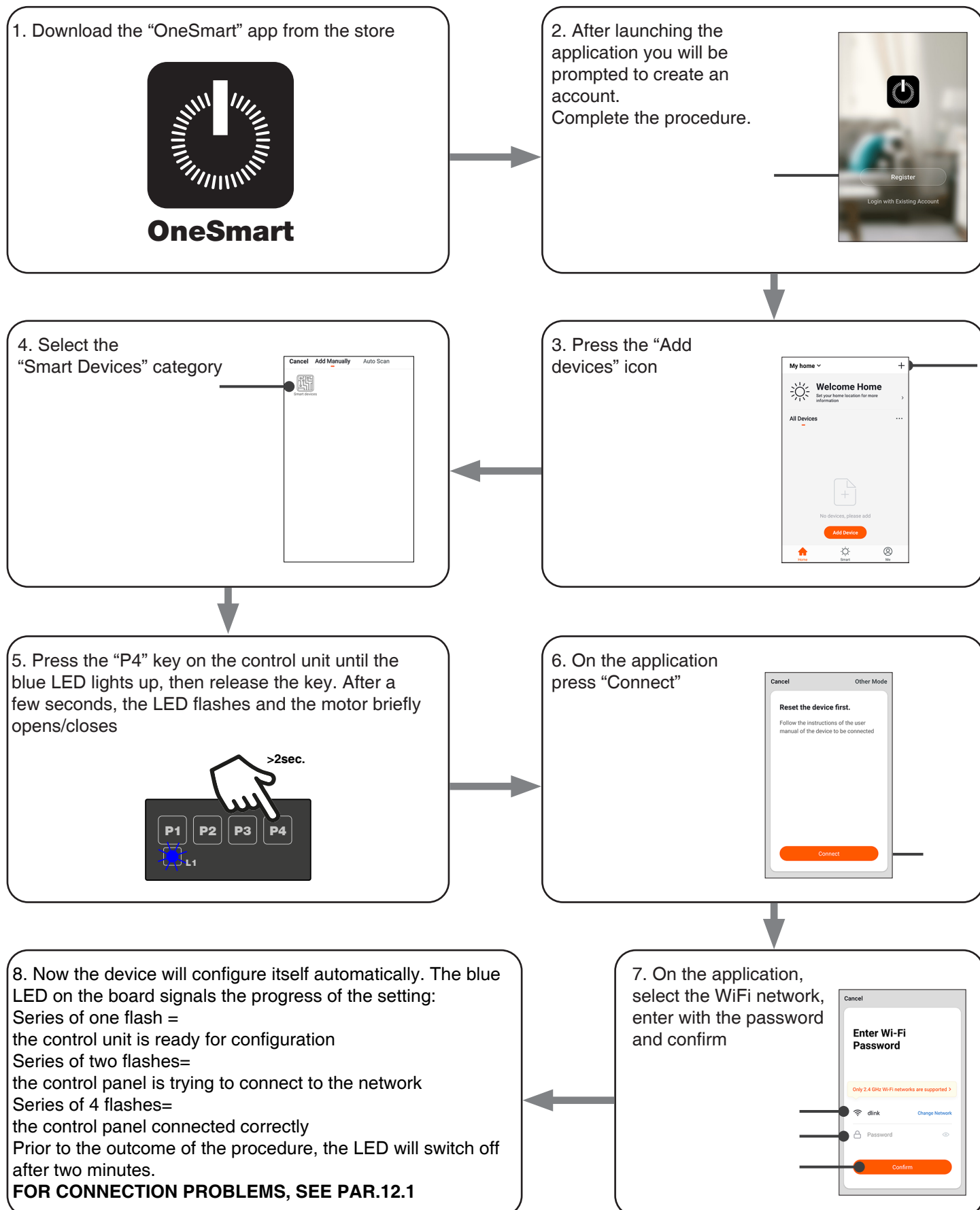
8 - MANAGEMENT FROM “ONESMART” APPLICATION

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

8.1 - CONNECTION TO THE “ONESMART” APP WITH BUTTONS ON THE BOARD

Requirements: Have a mobile phone connected to a 2.4GHz WiFi network with internet access to connect the control unit.

PROCEDURE



8.2 - CONNECTION TO THE “ONESMART” APP WITH REMOTE CONTROL

Requirements: be able to remove and apply line voltage to the box and have the wired control buttons connected to the appropriate wiring.

This procedure allows you to associate the control unit to a WiFi network without accessing the box but using the wired command buttons.

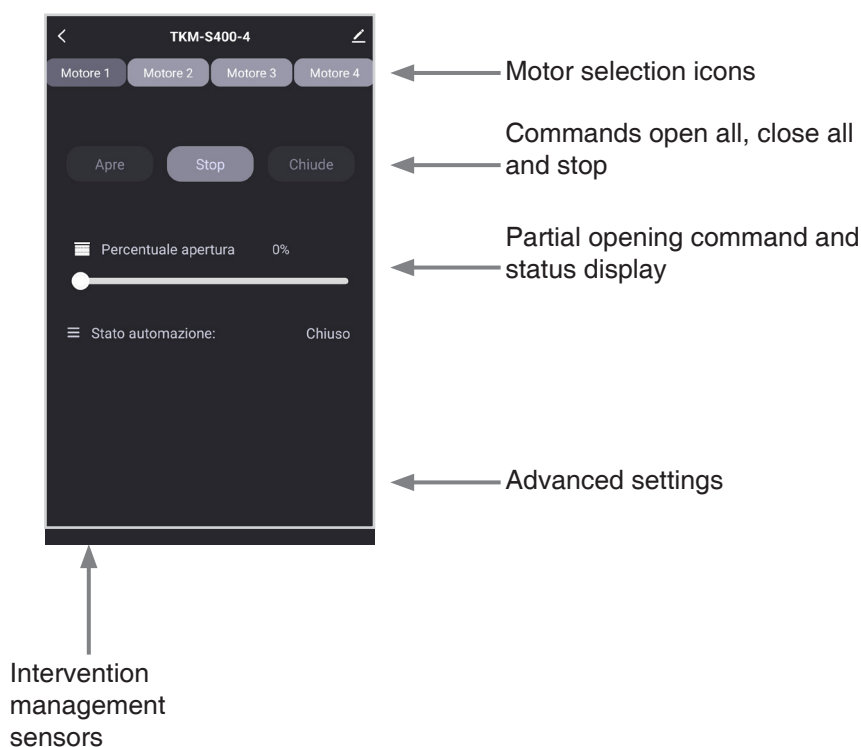
To complete the operation, follow the procedure in paragraph 8.1. In step 5 instead of pressing the button on the board:

- Disconnect power from the box by interrupting the 230Vac line
- Restore power to the system and within 5 seconds keep the closing wired button pressed until the buzzer in the box emits “beeps” to signal progress.
- Complete the procedure in paragraph 8.1

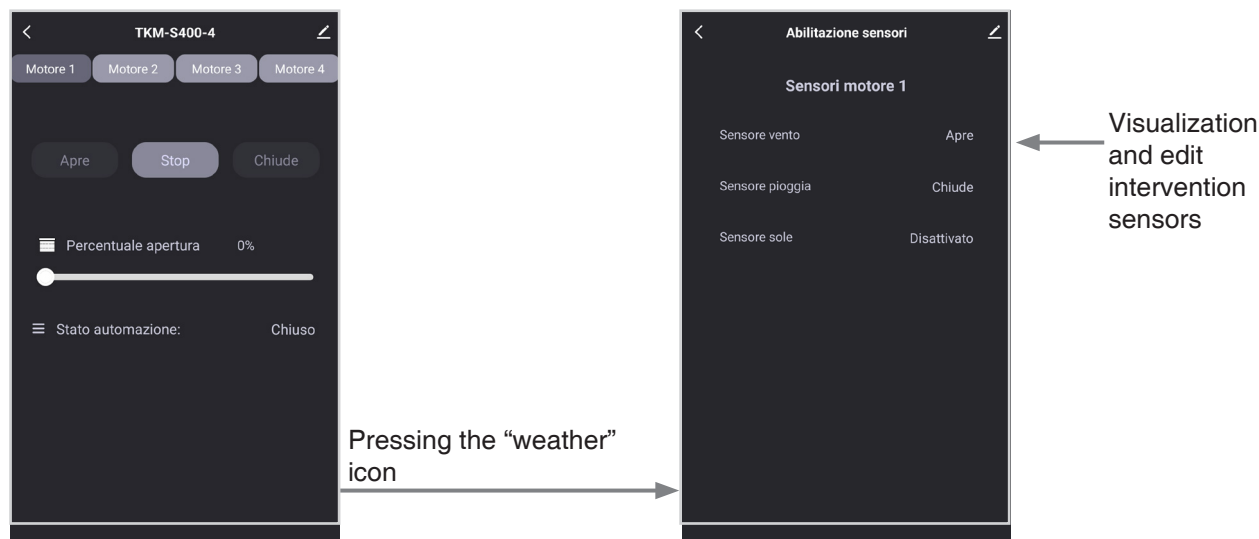
8.3 - USE OF THE APP ONESMART - COMMAND INTERFACE

NOTE: if the control unit is in an alarm state caused by the sensors, the movement commands via WiFi will be disabled and the error message will appear on the application.

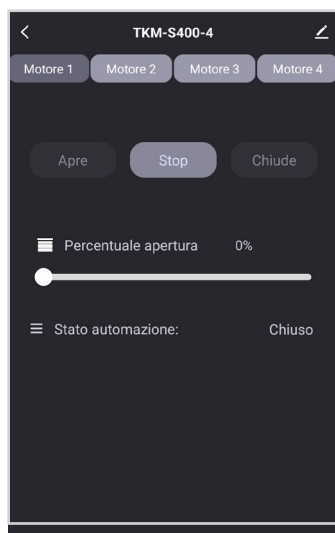
To move anyway, disable the relative alarm.



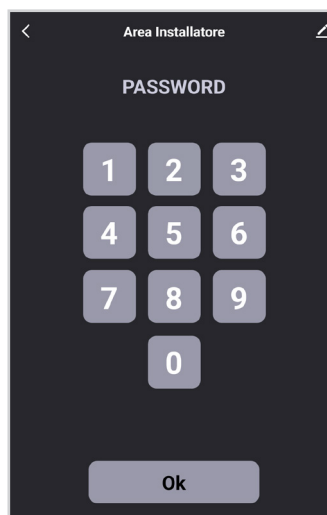
8.4 - USE OF THE APPLICATION - SENSOR MANAGEMENT



8.5 - USE OF THE APPLICATION - ADVANCED PROGRAMMING

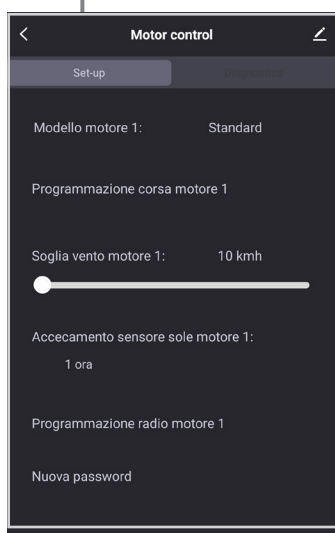


Pressing the "gear" icon



The default password is 0000.
To change the password, see the following procedures

Set-up



Setting the motor model (be careful if the motor type is changed it will be necessary to program the stroke again)

Setting the engine stroke, see next page

Setting the wind alarm intervention threshold

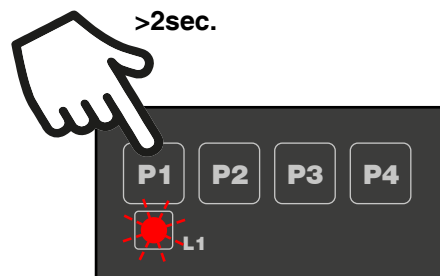
Setting the sensor blinding time

Management of radio controls

PROCEDURE FOR RESETTING THE PASSWORD FOR ACCESS TO THE ADVANCED PROCEDURES

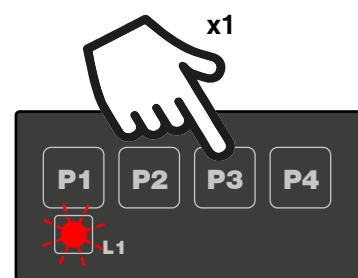
STEP 1

Keep button 1 pressed until the red LED flashes.



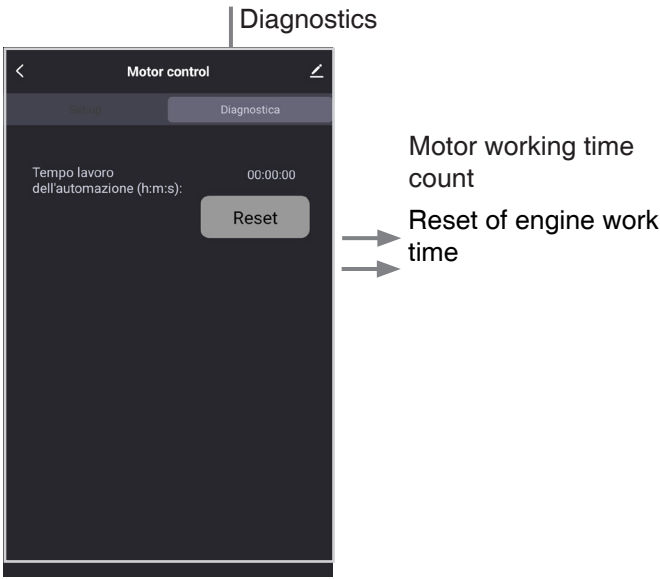
STEP 2

Briefly press the P3 button.
The red LED flashes quickly and turns off.
The password for accessing advanced procedures is 0000



8.6 - USING THE APPLICATION - DIAGNOSTICS

PROCEDURE:

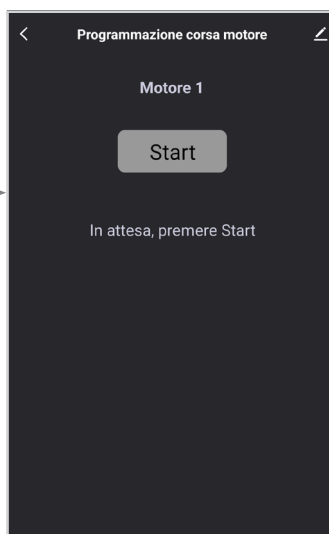
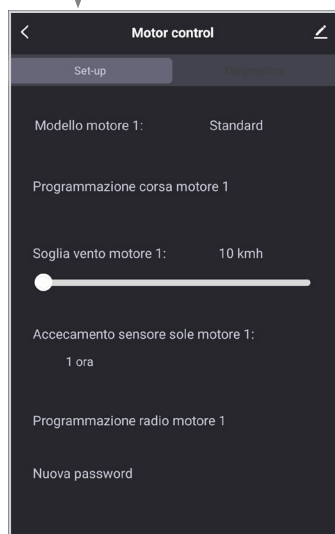


8.7 - USING THE APPLICATION - RUN PROGRAMMING

PROCEDURE:

STEP 1

Set-up



Press the “Start” button.
The buzzer on the board emits:
- Series of “one beeps”
Then:
- Series of “two beeps”

STEP 2

By pressing the open button the motor opens automatically.
By pressing the close button the motor closes automatically.

Stop the motor in the fully open position with the STOP button
and then press the “Upper limit switch” button.

The buzzer on the board emits:
- series of “three beeps”



STEP 3

By pressing the open button the motor opens automatically.
By pressing the close button the motor closes automatically.

Stop the motor in the completely closed position with the STOP
button and then press the “Upper limit switch” button.

The buzzer on the board emits “four beeps” and then one
“Long beep”.

The race is scheduled



NOTE

- For a more accurate measurement of the stroke, perform the least number of maneuvers possible (open and close) during the positioning of steps 2 and 3
- During this procedure any sensor alarms have no effect

9 - ADVANCED PROGRAMMING - SENSOR MANAGEMENT

With the following procedures it is possible to manage some sensor parameters and carry out an operation test. Programming can be carried out in 3 ways: with buttons on the card, with remote control or via application

9.1- PROCEDURE FOR ACTIVATION/DEACTIVATION OF SENSORS AND SETTING OF WIND THRESHOLD WITH RADIO CONTROL

Requirements: Have a compatible radio control associated with the control unit.

With compatible transmitters (see radio control manual) it is possible to activate/deactivate the sensors and adjust the wind threshold.

It is not possible to change the type of intervention (opens or closes) which must be done with the procedure in paragraph 9.3

NOTE:

- A compatible remote control can be paired with the control panel without accessing the box

9.2- PROCEDURE FOR ACTIVATION/DEACTIVATION OF SENSORS AND SETTING OF WIND THRESHOLD WITH WIFI APPLICATION

Requirements: Have associated the control panel with a WiFi network, see paragraph 8, and have a mobile phone with access to the Onesmart account of this system.

Inside the user interface of the application, in addition to a window for sending commands, there is a section dedicated to programming the control unit.

It is possible to activate/deactivate the sensors, adjust the wind threshold and change the type of intervention (opens or closes) of each sensor.

9.3 - PROCEDURE FOR ACTIVATION/DEACTIVATION OF SENSORS AND SETTING OF THE TYPE OF INTERVENTION WITH BUTTONS ON THE BOARD

Default:

Wind (10km/h)= opens.

Rain=closes

Sun = closes above threshold (lots of light), opens below threshold (little light). Blinding time 1 hours

Requirements: access the programming area located under the cap of the electronic control unit

The procedure on the following page allows you to modify the behavior of the sensor alarms.

The direction referred to (opens or closes) corresponds to the one named during the travel programming procedure in paragraph 6.1.

The behavior of each sensor can be customized for each engine.

During the wind sensor setting procedure, if enabled, you must also choose the intervention threshold at which it intervenes.

During the sun sensor setting procedure, if enabled, you must choose the time for which the sun sensor is ignored in the event of receiving commands via radio, wire or WiFi from the user.

Example:

The sensor is exposed to the sun and opens the motors completely. The user with the remote control decides to close them.

The sun sensor readings will no longer have any effect for a period of 2 hours (default value).

PROCEDURE:

STEP 1

keep button P3 pressed. The LED changes color cyclically:

Flashes red= Motor1

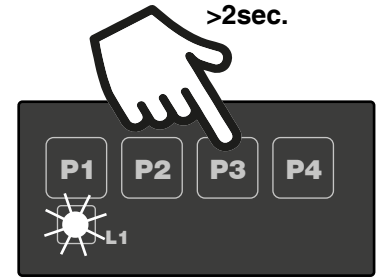
Flashes green= Motor2

Flashes blue= Motor3

Flashes yellow= Motor4

Flashes purple= All motors

Position yourself on the LED corresponding to the engine for which you want to change the behavior of the sensors



STEP 2

Briefly press the button corresponding to the sensor whose behavior you want to change:

P1= wind sensor setting. The LED lights up fixed red

P2= rain sensor setting. The LED lights up fixed green

P3= sun sensor setting. The LED lights up fixed blue



**RED LED
(WIND)**

STEP 3A

OPEN TO INTERVENTION =
Press button P1, the LED begins to flash to set the wind speed above which to intervene (see following table)

CLOSE TO INTERVENTION =
Press button P2, the LED begins to flash to set the wind speed above which to intervene (see following table)

DEACTIVATE=
Press button P3

N° FLASH	THRESHOLD
1	10 km/h
2	15 km/h
3	20 km/h
4	25 km/h
5	30 km/h
6	40 km/h
7	50 km/h
8	60 km/h
9	70 km/h

**GREEN LED
(RAIN)**

STEP 3B

OPEN TO INTERVENTION =
Press button P1

CLOSE TO INTERVENTION=
Press button P2

DEACTIVATE=
Press button P3

**BLUE LED
(SUN)**

STEP 3C

OPENS BELOW THRESHOLD (LITTLE LIGHT) AND CLOSSES ABOVE THRESHOLD (LOT OF LIGHT)=
Press button P1, the LED begins to flash to set the sensor blinding time (see notes on previous page* and following table)

CLOSSES BELOW THRESHOLD (LITTLE LIGHT) AND OPENS ABOVE THRESHOLD (LOT OF LIGHT)=
Press button P2, the LED begins to flash to set the sensor blinding time (see notes on previous page* and following table)
DEACTIVATE=
Press button P3

N° FLASH	THRESHOLD
1	5 minutes
2	15 minutes
3	30 minutes
4	1 hour
5	2 hours
6	5 hours
7	12 hours
8	18 hours

STEP 4a

Briefly press P1 or P2 during the flashing corresponding to the desired value.

STEP 4c

Briefly press P1 or P2 during the flashing corresponding to the desired value.

9.4 - TEST OF THE OPERATION OF THE SENSORS WITH BUTTONS ON THE BOARD

Requirements: access the programming area located under the cap of the electronic control unit.

PROCEDURE:

STEP 1

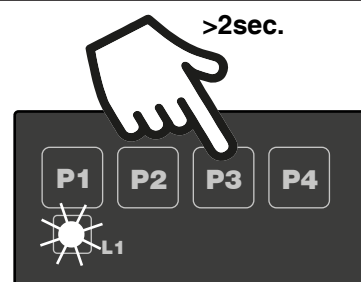
Keep the button P1 pressed until the LED lights up and changes color cyclically.

Each colour corresponds to a sensor:

RED LED = wind sensor setting

GREEN LED = rain sensor setting

BLUE LED = sun sensor setting



STEP 2

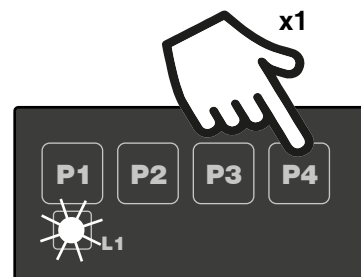
Release the button corresponding to the color associated with the sensor you want to test.



STEP 3

Briefly press the P4 button.

The control panel enters test mode.



RED LED (WIND)

To carry out the test, rotate the vanes of the wind sensor (anemometer) by hand: the control unit makes a short opening movement followed by a short closing movement. Once the test is completed, the control panel will emit 4 beeps.

GREEN LED (RAIN)

To carry out the test, wet the sensitive part of the rain sensor: the control unit makes a short opening movement followed by a short closing movement. Once the test is completed, the control panel will emit 4 beeps.

BLUE LED (SUN)

To carry out the test, expose the sensitive part of the sensor to light: the control unit makes a short opening movement followed by a short closing movement. Once the test is completed, the control panel will emit 4 beeps.

10 - RESET TO FACTORY PARAMETERS

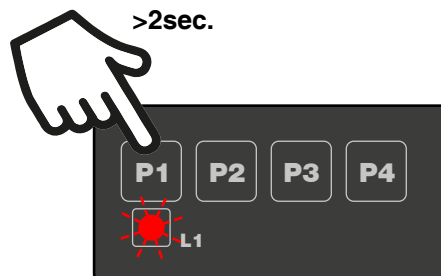
With the following procedure the control unit is returned to the factory parameters with the exception of:

- Possible connection to a WiFi network

PROCEDURE:

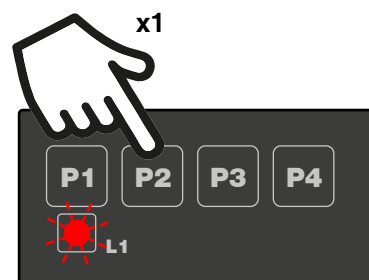
STEP 1

Keep the button P1 pressed until the red LED flashes.



STEP 2

Briefly press the P2 button.
The red LED flashes quickly and turns off.



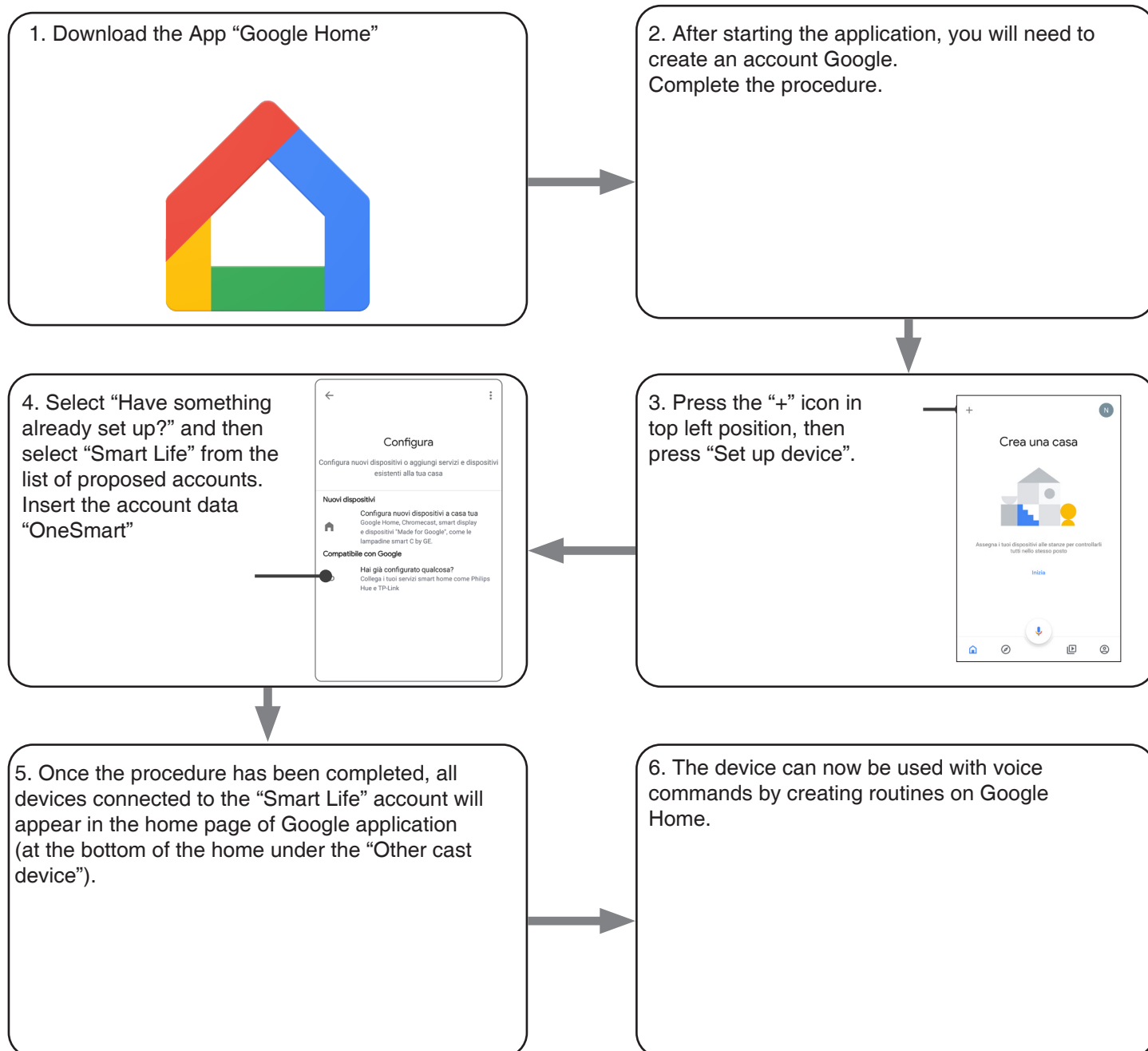
11 - CONTROL BY VOICE COMMANDS

You can use this procedure to associate a “OneSmart” account with a Google or Alexa account to enable the voice commands.

11.1 - CONNECTION TO “GOOGLE HOME”

PROCEDURA PROCEDURE

WARNING: before proceeding with this procedure, you must have set up the “OneSmart” account



11.2 - CONECTION TO “AMAZON ALEXA”

PROCEDURE

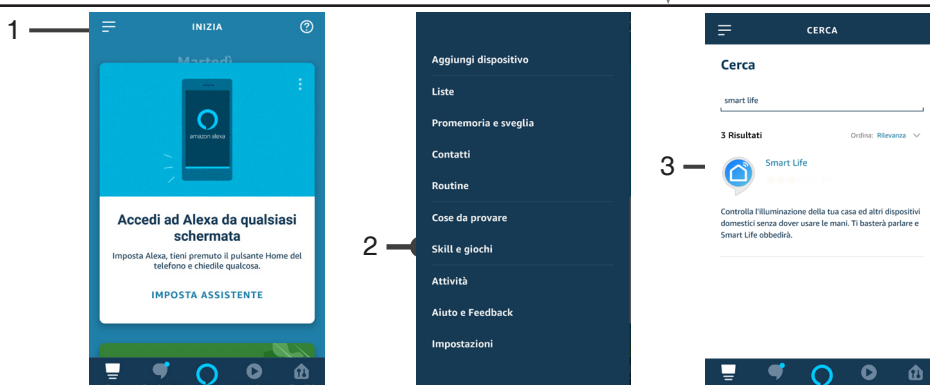
WARNING: before proceeding with this procedure, you must have set up the “OneSmart” account.

1. Download the App “Amazon Alexa”



2. After starting the application, you will need to create an account Amazon.
Complete the procedure

3. From the application home page press “menu” (1) then “Skill and games” (2). Press on the “Magnifying glass” at the top right and then search for “Smart Life” (3). Follow the procedure to enable use of the “OneSmart” account created.



4. Complete the procedure by entering the “OneSmart” account data created in paragraph 6. You can then start searching for devices by pressing the “Discover devices” button (4). If you want, complete the setting-up procedure by inserting the device into a room.



5. Now the voice commands can control the control unit

12 - INSIGHTS

12.1 - 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

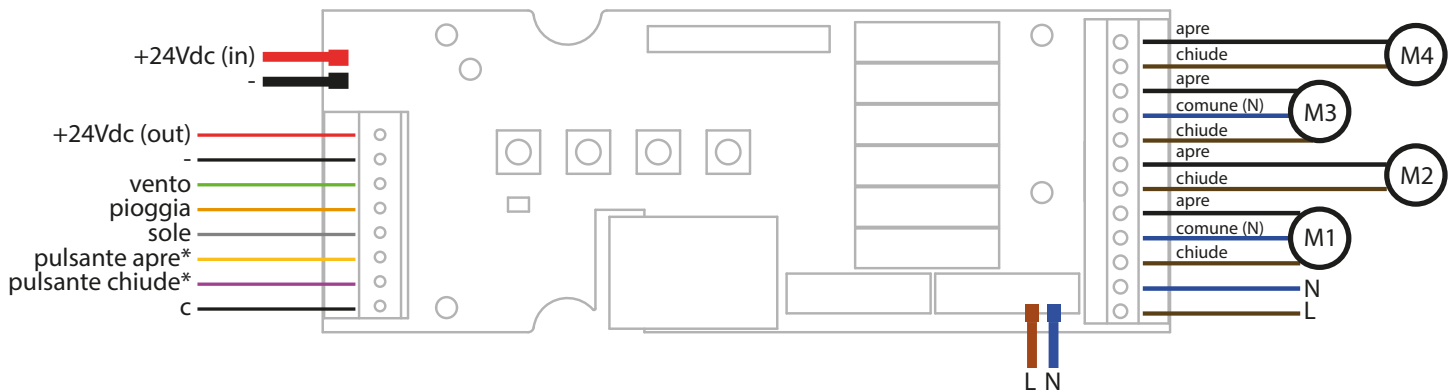
some routers could have default security settings not compatible with the device.

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

SECURITY TYPE: WPA2

ENCRYPTION TYPE: AES

12.2 - CONNECTION DIAGRAM OF THE CONTROL UNIT IN THE BOX



* I pulsanti controllano tutti i motori in modo sincronizzato



V1.00

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