

KIT

ST SmartControl

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- 2** How does it work
Discover its potential
- 3** Installation and configuration WI-FI Radio
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ST SmartControl

Turn your smartphone into a remote control!

Thanks to the interaction that is created between the App "ST SmartControl" (available on the stores both IOS and Android) installed on your smartphone and the radio receiver WI-FI you can control the automation with a simple click.



Virtual remote control

Interaction between the App on smartphone and the WI-FI receiver radio

ST SmartControl is a virtual remote control designed to operate automations such as doors, gates, garages, etc. easy to use and suitable for anyone that uses a smartphone.

ST SmartControl allows you to use the same device to manage different gates or automations configured and allows you not to replace the receiving system / electronic control unit in case of loss or theft of the remote control, in fact in these cases you can just block the app on your smartphone.

AT FIRST USE

1. Download the "ST SmartControl" App
Available on the Google Play ed App Store
2. Install the WI-FI receiver
3. Start the App on your smartphone and configure the type of automation
4. Use the app as a virtual remote control



OPERATIONAL USE

1. Start the "ST SmartControl" App
2. Display the previously configured virtual remote control
3. Check that the wifi is connected correctly
4. Manage the opening and / or closing of the automations (gates, doors, etc.)

Via the smartphone's WI-FI, the App orders the radio receiver to execute the command. Once the App is launched, a virtual remote control is visible on the smartphone display. to activate the automation, simply press the corresponding button, like a traditional remote control. The App will signal the correct operation of the command sent by means of a virtual LED signal.

ST SmartControl means zero maintenance cost, it's eco-friendly, no printed circuit board, no battery to replace.

Installation

The installation procedure is reserved for qualified personnel only

Consult the procedure that best suits your needs:

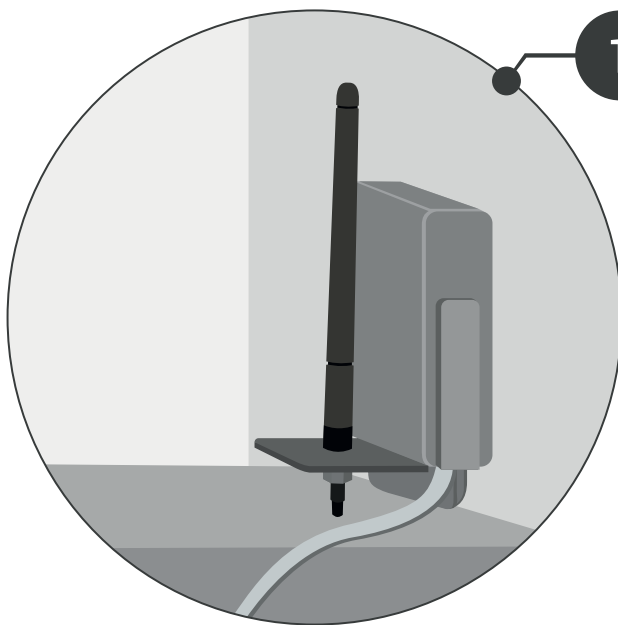
3A External radio already existing

In the case of the existence of an external radio already installed, continue from chapter 3A, page 23.

3B External radio absent

In the case of absent external radio, continue from chapter 3B, page 28.

Installation guide with external Radio already existing



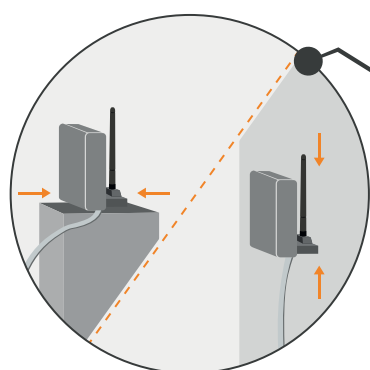
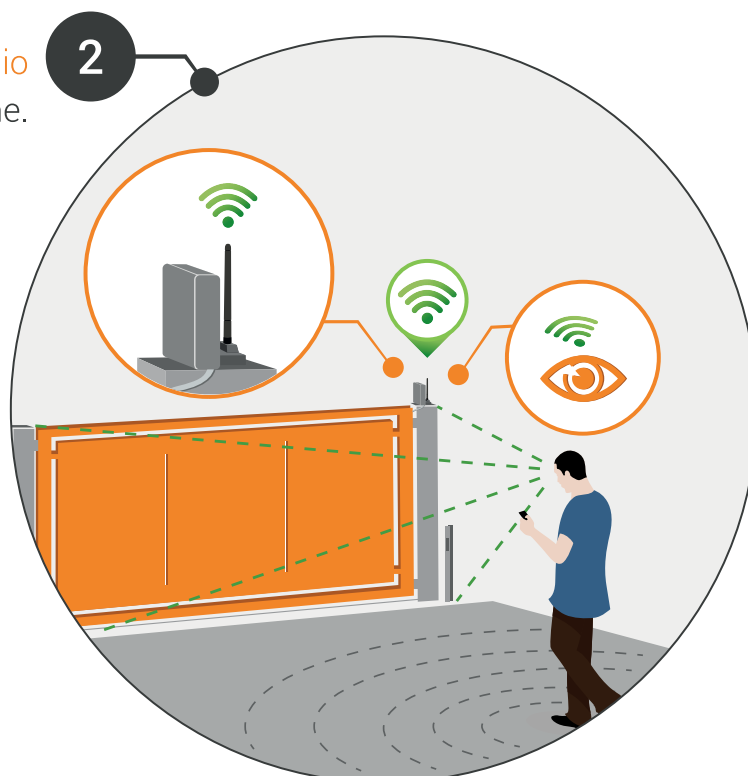
1 FIXING

Identify the existence of the external receiver.

3A External radio already existing

EN

Place the WI-FI radio near to the existing one.

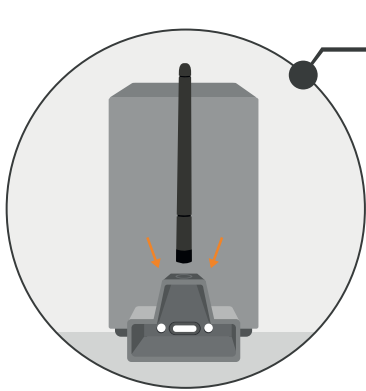


3

The Startec receiver is designed for installation on a horizontal or vertical surface.

3A External radio already existing

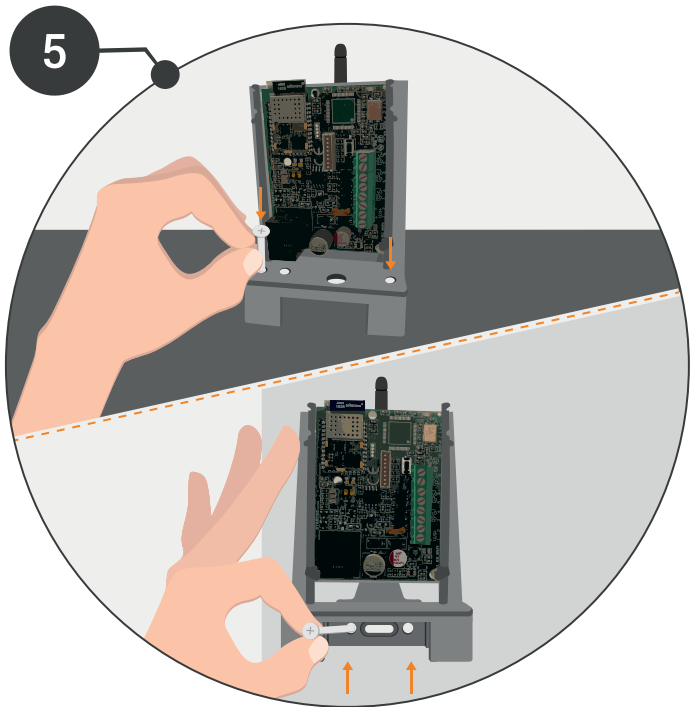
EN



4

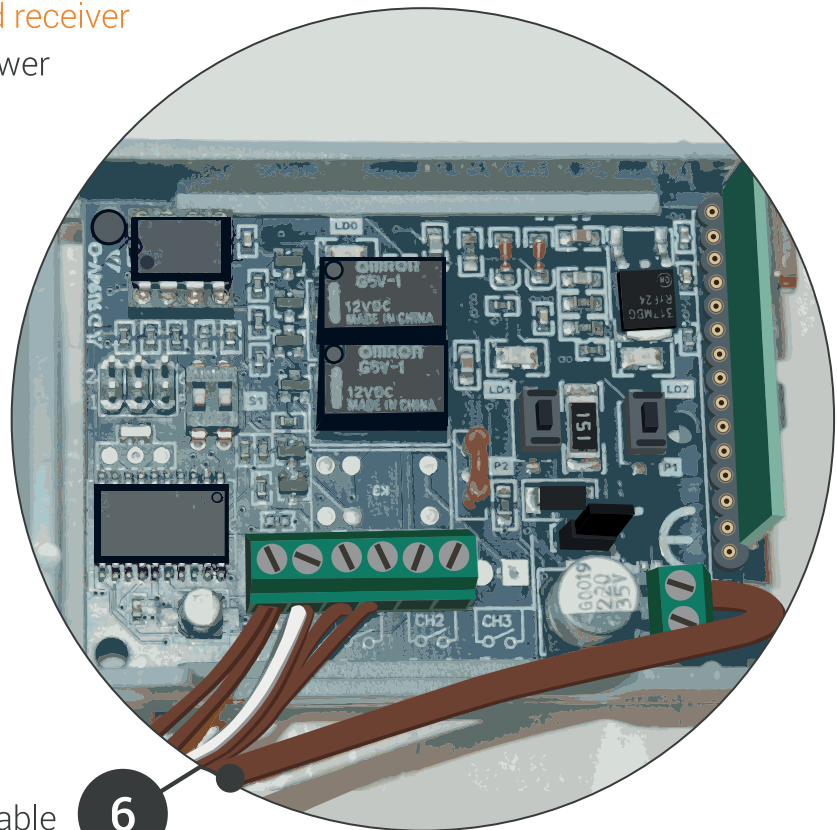
Screw the antenna onto the connector in the rear base of the WI-FI receiver.

To install the STARTEC receiver it is sufficient to use the holes already present in the plastic box at the base of the receiver and make the equivalent holes on the bearing surface (wall, pole or other).

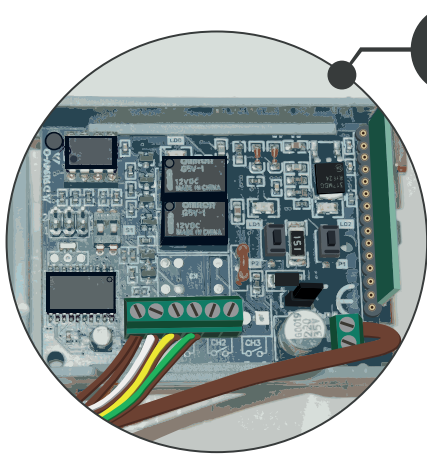


5

- 5.1 Open the installed receiver and locate the power cables.



6 Connect the brown cable of the wireless radio with the (+) of the existing radio and the white cable of the wireless radio with the (-) or the GND of the existing radio.



7

Connect the yellow cable and the green cable of the WI-FI radio to the n/o contact of the existing radio.

FUNCTIONAL RECEPTION CHECK

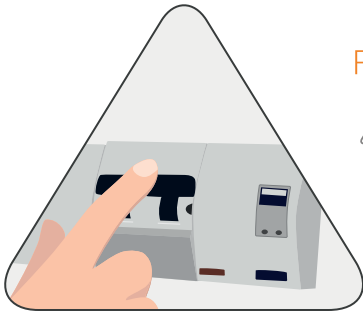
If the distance covered by the system is not sufficient, it is possible to remote the antenna with the supplied antenna cable.

We suggest placing the antenna with the appropriate fixing bracket at the highest point possible and free from the presence of metal obstacles or cement walls.

8



How to install the WI-FI receiver radio



Remove voltage from the board.

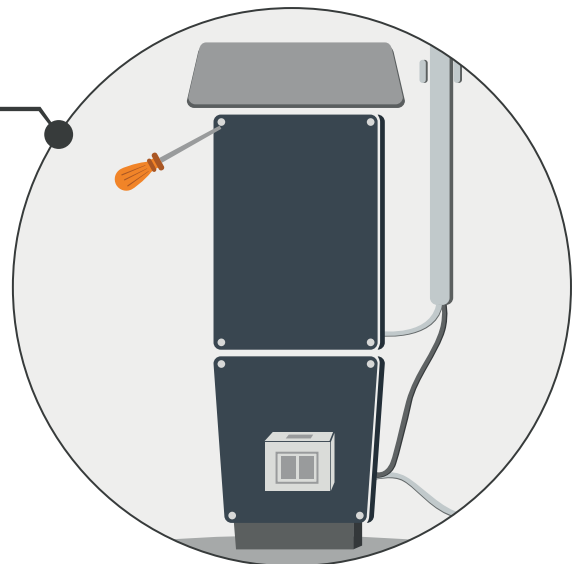


For your safety we recommend performing these operations.

**CONTROL UNIT
BOX**

Identify the box that contains the driving of your automation and open it.

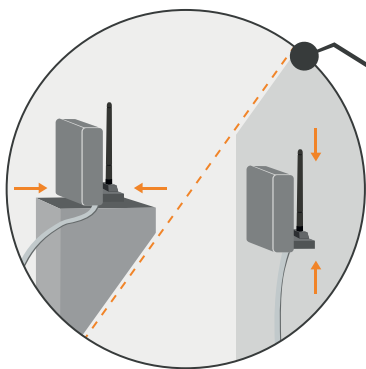
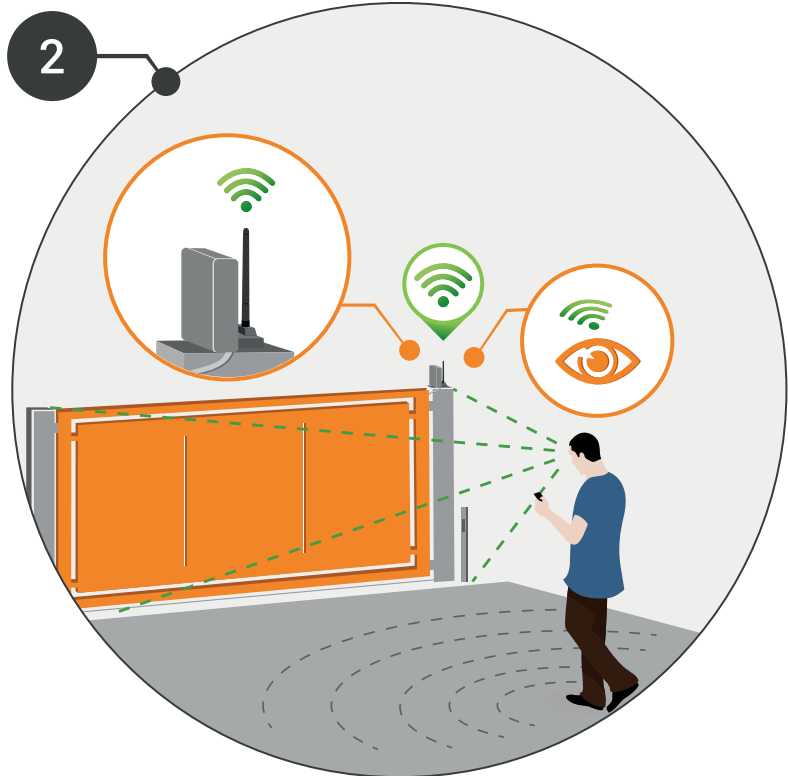
1



3B External radio absent

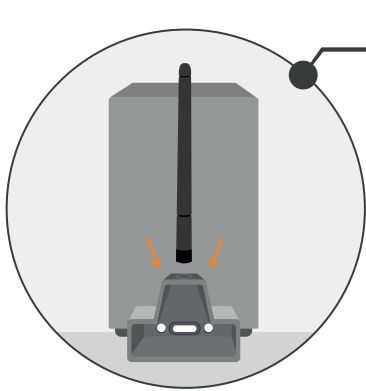
EN

Place the WI-FI radio in an obstacle-free area inside the yard area and not accessible from the outside for reasons of security against tampering.



3

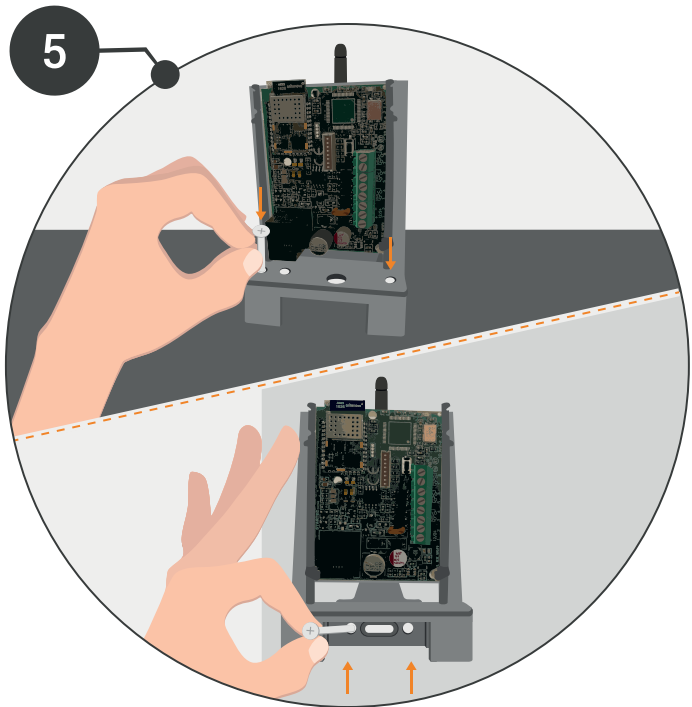
The STARTEC receiver is designed for installation on a horizontal or vertical surface.



4

Screw the antenna onto the connector in the rear base of the WI-FI receiver.

To install the STARTEC receiver it is sufficient to use the holes already present in the plastic box at the base of the receiver and make the equivalent holes on the bearing surface (wall, pole or other).



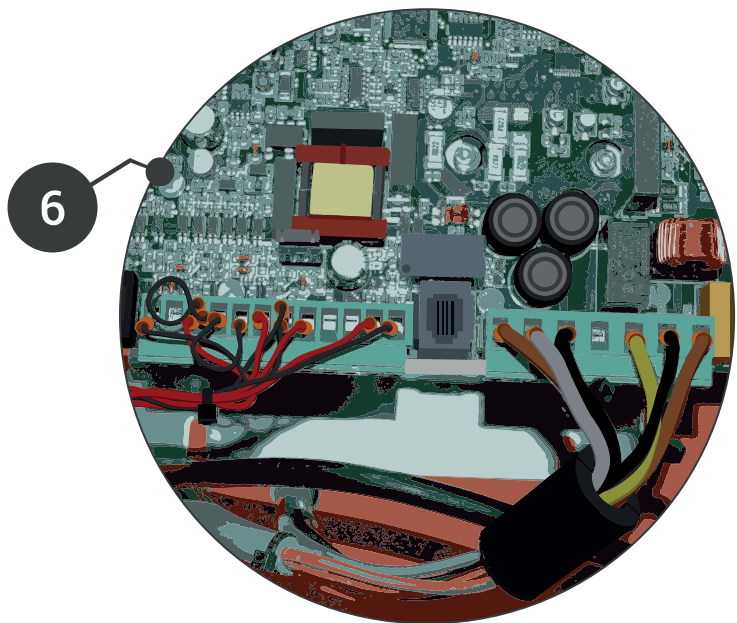
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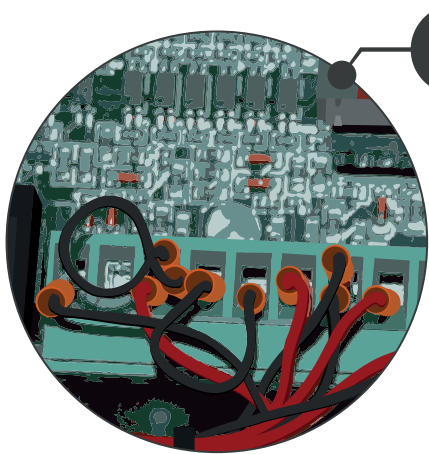
3B External radio absent

EN

Locate the **accessory power** supply 12/24 Vac/dc on the automation control unit.

Connect the brown of the WI-FI radio with the (+) of the accessory power supply of the 12/24 Vac/dc control unit and the white with the (-) of the power supply of the control unit.





7

Connect the yellow and green cable of the WI-FI radio to the same connectors of the the key selector.

FUNCTIONAL RECEPTION CHECK

If the distance covered by the system is not sufficient, it is possible to remote the antenna with the supplied antenna cable.

We suggest placing the antenna with the appropriate fixing bracket at the highest point possible and free from the presence of metal obstacles or cement walls.

8



Technical features

Receiving frequency

2.4 GHz IEEE 802.11 b/g/n

Antenna input impedance

50 Ohm

TX power

18.3 dBm @ 1 Mbps DSSS

13.7 dBm @ 54 Mbps OFDM

RX Sensibility

-96.0 dBm @ 1 Mbps DSSS

-74.5 dBm @ 54 Mbps OFDM

Security

WEP/WPA/WPA2 personal security

Supply

12V / 24 V $\pm 15\%$ Ac / Dc

Current Consumption

Standby with RTC: 43 μ A

- Sleep connected (DTIM=1): 15 mA
- RX traffic: 105 mA typical
- TX traffic: 243 mA typical @ 10 dBm

Max switching current from PhotoMos (resistive)

120 mA

Maximum voltage on PhotoMos

60V

Response delay max

4s

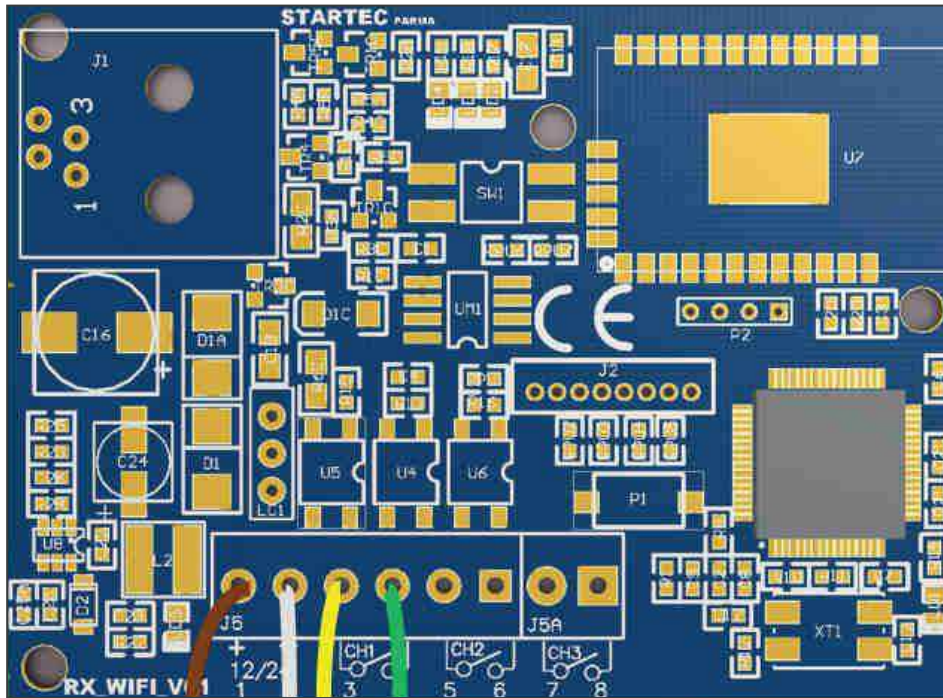
Operating temperature

-20 °C .. +85 °C

Size

Only PCB 67 x 50 x 21 mm

with box 102 x 60 x 70 mm



Connection diagram

- | | |
|-------------|------------------|
| 1 (+) brown | 3 common contact |
| 2 (-) white | 4 contact n/o |

Certifications

This module complies with the following European EMI/EMC and safety directives and standards:

- ETSI EN 300 238 v1.9.1:2015
- EN 301 489-1 V1.9.2:2011 + EN 301 489-17 V2.2.1:2009
- EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
- EN 62479:2010

STARTEC

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MADE IN ITALY



