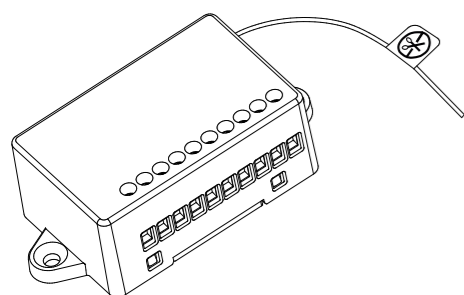


Radio control unit to be combined exclusively with the smart module SUNNY by Stafer.

This allows you to control a mechanical motor from either remote control, both from a smartphone and from a wall button. Everything always perfectly synchronized.



Dear Customer,
thank you for purchasing a STAFER S.p.A. product.

This manual contains information about the use of the product. Carefully read the information contained herein and keep this manual for future reference.

The 597.R.EW.01 receiver module is specially designed for controlling a single-phase asynchronous motor with **mechanical limit switches**.

Any other use beyond the field defined by Stafer S.p.A. is prohibited and involves, as well as the failure to comply with instructions provided in this guide, voidance of Stafer S.p.A.'s liability and warranty.

NOTE: This product works exclusively combined with the smart SUNNY control unit, art. 597.M.WT.00. It is compatible with 595.T.X1.00, 596.T.X5.00, 596.T.X1.00, 595.P.X1 and 595.M.X1.00 transmitters. Before starting the programming procedure, read the radio control instruction manual and locate the UP, STOP, DOWN, PROG buttons. In the following description the remote control is represented in a completely generic form.



VIDEO TUTORIAL YouTube

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- 01. Warnings
- 02. Electrical connections
- 03. First installation
- 04. Add/delete a radio device
- 05. Work time function
- 06. Button logic function
- 07. Factory values reset

Package Contents

- ✓ 1 receiver 597.R.EW.01
- ✓ this manual

Disposal

At the end of the product's life cycle, dispose of it in accordance with local regulations, or return it to the retailer when purchasing a new equivalent product. This product may contain substances that are polluting for the environment and dangerous to health; it is forbidden to dispose of the product in domestic waste.



Notes on radio systems

It is advisable to avoid using radio systems in areas with strong interference (for example, near police stations, airports, banks, hospitals). A technical inspection is in any case advisable before installing any radio system in order to identify sources of interference.

Radio systems can be used where possible disturbances or malfunctioning of the transmitter or the receiver do not cause a risk factor, or if the risk factor is cancelled by suitable safety systems.

The presence of radio devices operating on the same transmission frequency (433.42 MHz) can interfere with the radio receiver, reducing the system's range and limiting the system's functionality.



Technical specifications

- ✓ Power supply: 120 or 230 Vac, 50/60 Hz
- ✓ Contact rating: 5A at 250 Vac
- ✓ Dimensions: 84 x 40 x 26 mm
- ✓ Weight: 60 g
- ✓ Operating temperature: from -20 to +55 °C
- ✓ Protection grade: Ip20
- ✓ Work time: 120s
- ✓ Radio frequency: 433.42 MHz
- ✓ Radio frequency band: 433.050 - 434.790 Mhz
- ✓ Maximum transmitted ERP: < 10 mW
- ✓ Range (estimate): 100m outdoors, 20m indoors.

01. WARNINGS

01.1 SAFETY WARNINGS

- ✓ Incorrect installation can cause serious injuries.
- ✓ Keep these instructions for future maintenance operations and the disposal of the product.
- ✓ All the product installation, connection, programming and maintenance operations must be carried out only by a qualified and skilled technician, who must comply with laws, provisions and local regulations, and the instructions provided herein.
- ✓ Wiring must comply with current CEI standards. In compliance with the provisions of Italian Ministerial Decree 37/2008, the final electrical system must be installed only by an electrician.
- ✓ Some applications require "man present" operation and can exclude the use of radio commands or require particular safety devices.
- ✓ To prevent potentially dangerous situations, regularly check the operating condition of the rolling shutter.

01.2 INSTALLATION WARNINGS

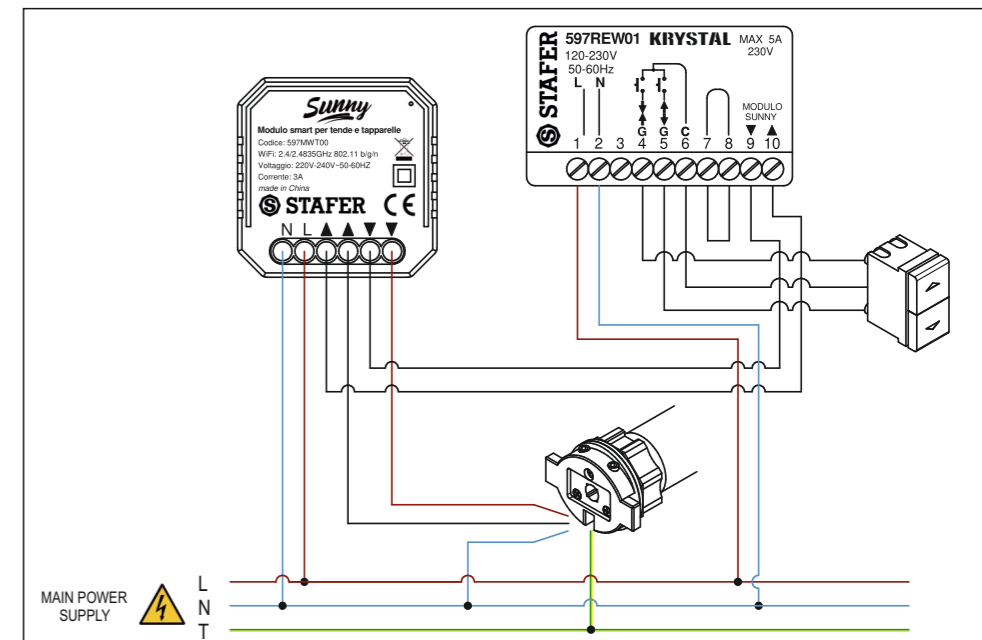
- ✓ Check that the package is intact and has not been damaged in transit.
- ✓ The product is designed to be installed inside junction boxes. The module does not provide any protection against water and only an essential protection when in contact with solid parts.
- ✓ It is forbidden to install the module in areas that are not adequately protected, and near heat sources.
- ✓ Use command buttons with spring return, do not use switches with maintained position.
- ✓ The command buttons must be visible/near the application, but distant from any moving parts and at a height of at least 1.5m from the floor.
- ✓ Work safely on the product, using appropriate tools.
- ✓ If there are several radio appliances in the same system, make sure they are at least 1.5m apart.
- ✓ Do not install the product near metal surfaces.
- ✓ Do not modify or replace parts without authorization from the Manufacturer. Do not open or puncture the container.
- ✓ It is forbidden and dangerous to tamper with the antenna cable. Replace the product if the antenna cable is damaged.

01.3 USE WARNINGS

- ✓ The product is not intended to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or given instructions about the product way of use by a person responsible for their safety.
- ✓ Before operating the rolling shutter, make sure that people or things are not in the area affected by the movement of the rolling shutter. Check the automation during operation and keep people at a safe distance until the end of operation.
- ✓ Do not allow children to play with the appliance or with the fixed control devices. In addition, keep handheld controllers (remote controls) out of the reach of children.
- ✓ Do not operate the rolling shutter when maintenance operations are being carried out (e.g. window cleaning, etc.). If the control device is automatic, disconnect the motor from the power line.

02. ELECTRICAL CONNECTION

- ✓ Make all connections with the power supply disconnected.
- ✓ Check that the power line does not feed on electrical circuits to be used for lighting.
- ✓ The power line must be equipped with a magnetothermal or differential circuit breaker. Moreover, a category III overvoltage disconnection device must be fitted on the system, i.e. at a distance of at least 3.5 mm between the contacts.
- ✓ The product does not provide for any protection against overloads or short circuits. Provide the supply line with an adequate protection to the load, for example a quick fuse of maximum value 3.5A. Make the connection so that the fuse is inside the junction box where the device is present.
- ✓ It is forbidden to connect more than one motor to the module. If more motors need to be connected, use the appropriate expansion cards.
- ✓ Use command buttons with spring return, do not use switches with maintained position. The buttons are subjected to the mains voltage and, therefore, must be adequately insulated and protected.
- ✓ Always connect the motor with the ground wire (yellow/green).



ATTENTION!!

First install the 597REW01 control unit; then install the SUNNY WiFi control unit. After installing the SUNNY control unit following its installation manual, adjust the time working time from the APP on the smartphone making it roughly coincide with the maneuver time of the motor by entering the Settings / Quick calibration menu.

Power supply

The module can be powered at 230 Vac or 120 Vac voltage. The supply voltage must be applied to terminals 1 and 2.

Motor connection

The motor cables must be connected to terminals 9 and 10, the neutral wire of the motor must be connected to terminal 7. **It is forbidden to connect more than one motor directly to the control unit.** Terminals 7,9 and 10 must be connected to the centralization module used.

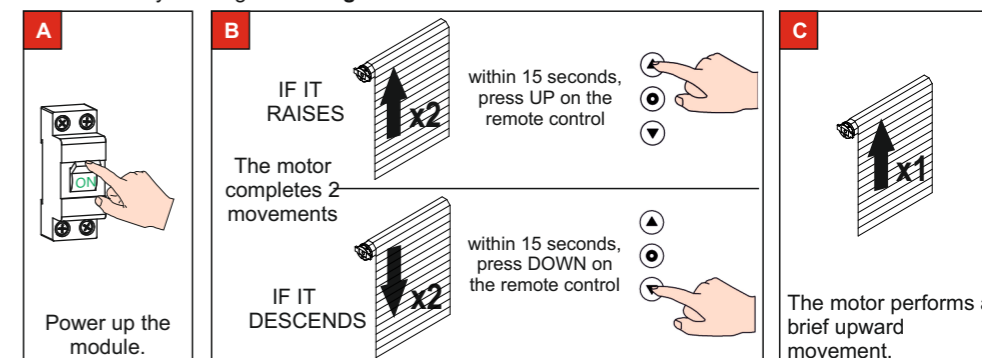
Connection of command buttons (optional)

The command buttons must be connected to terminals 4 and 5, the common wire of the buttons must be connected to terminal 6. The command buttons are subjected to mains voltage and therefore must be adequately insulated and protected. The command buttons must be in momentary positions, do not use maintained position switches. Multiple command buttons can be connected to the control unit through a parallel connection. To carry out an up or down manoeuvre, press the relative button for at least 0.5 seconds, to block the manoeuvre, briefly press any of the control buttons.

03. FIRST INSTALLATION

After having connected both control units according to the diagram above, it is essential to first memorize the remote control to the 597REW01 control unit. During the association of the control unit to the radio control, the Sunny module will flash. Immediately after, adjust the mechanical limit switches of the motor by giving impulses with the radio control.

Subsequently it will be necessary to associate the smart SUNNY module with the smartphone following its manual. If it has stopped flashing, it is advisable to cut off the power for a few seconds and then restore power. Once the SUNNY module has also been associated, it is important to adjust the time working time from the APP on the smartphone making it roughly coincide with the maneuver time of the motor by entering the **Settings / Quick calibration menu**.



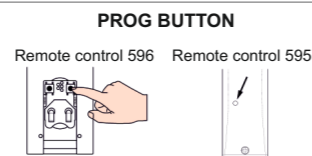
NOTE:

In case the installation procedure is not performed correctly, it is possible to reset the system to factory conditions (see section 07. Reset to factory conditions). If by mistake you have associated the direction of rotation in the opposite direction with respect to the arrows on the remote control, before installing the Sunny module it is necessary to restore the factory conditions and redo the programming. If, on the other hand, you have installed the control unit correctly and after installing the Sunny module the direction of rotation between the two is not aligned, reverse the direction of rotation on the smartphone APP (Configure/Motor steer...) and then on this control unit, restore the factory conditions and redo the programming (the Sunny module will remain memorised).

04. ADD OR DELETE A RADIO DEVICE

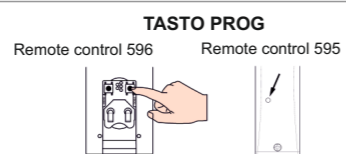
With this procedure, it is possible to store settings for additional remote controls, besides the first one already stored.

01. Bring the motor to the intermediate position.
02. Press for 2 sec. PROG of a remote control already stored. Motor makes 2 upward movements.
03. Within 15 seconds for add a remote control press **STOP** or **UP** on the remote control to be added
04. The motor performs 2 movements up: device stored!!



With the following procedure, it is possible to delete a remote control.

01. Bring the motor to the intermediate position.
02. Press for 2 sec. PROG of a remote control already stored. Motor makes 2 upward movements.
03. Within 15 seconds, for delete the remote control already stored press **DOWN** on the remote control to be deleted.
04. The motor performs 1 movement down: device deleted!!



05. WORK TIME FUNCTION

It is the closing time of the relays when a maneuver is commanded. The factory set time is 120 sec. To change it, use the APP that controls the SUNNY module.

06. BUTTON LOGIC FUNCTION

The command buttons, if present, can only work with IMPULSE, not with DEAD MAN logic. IMPULSE: to move the motor, press a button for at least 0,5 seconds; to stop the motor, briefly press (less than 0,5 seconds) one of the two buttons.

07. FACTORY VALUE RESET

This procedure restores the factory settings of the receiving device.

07.1 How to perform a reset from a stored remote control

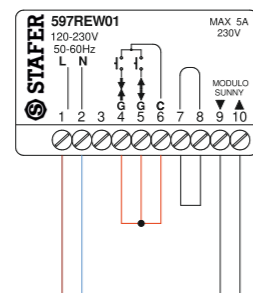
- ✓ Make sure that this radio channel controls **only the device you want to reset.**

01. In the case of multichannel, select the channel associated to the remote control to be reset.
02. **With remote control 596:** briefly press **MENU**. Display shows: - - .
With remote control 595: press quickly **3 times** on **PROG** (red led on).
03. **With remote control 596:** press twice on **UP** and 9 times on **DOWN**. "29" appears on the display.
With remote control 595: press twice on **UP** and 9 times on **DOWN**.
04. Press STOP. The motor performs 2 movements.
05. When the motor is stopped, press UP twice.
The motor signals that the reset has been carried out with a movement.
06. With remote control 596 press **MENU** to exit. With remote control 595 press **3 times on PROG** to exit (led off).
07. Install the motor again (see section 3 of this manual).

07.2 How to perform a reset from a wall-mounted button (if any)

This procedure must only be carried out by qualified technical personnel.

01. Disconnect the module from the power supply.
02. Connect as shown.
03. Power up the module again and wait about 5 sec., until the motor makes two brief movements, one opposite to the other, to indicate that the factory conditions have been restored.
04. Disconnect the module from the power supply.
05. Restore the connections (see paragraph 02).
06. Follow the instructions provided in paragraph 03 for storing the first radio code.



STAFER

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