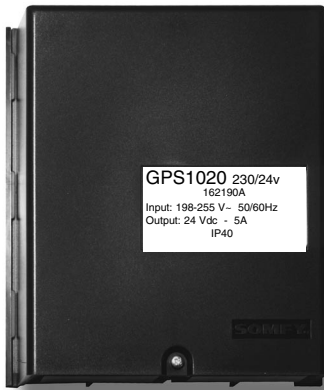


INSTALLATION *guide*

GPS 1020 POWER SUPPLY



General description :

The GPS 1020 is a power supply and controller for a group of Somfy DC motors. It can be locally controlled with an Impulse type switch or Infrared transmitters once an Infrared sensor is connected.

Master control can be achieved through the Somfy bus line with an Impulse switch or automatic control.

Possibility to set two tilting functions: US or CE type.

1 Characteristics :

The GPS 1020 is compatible with the IRT 103 & IRT 803 infrared transmitters, the IR sensor (EACT028830) and impulse type switches.

Technical data :

Nominal supply : 230 V~
Limits : 198 - 255 V~
Output voltage : 24Vdc
IP rating : IP40
Working temperature : 0°C to 40°C
Storage temperature : -15°C to 70°C
Housing colour/material : Grey/ABS
Dimensions : 135 x 120 x 42mm
Fuse : (2 spare fuses supplied) - TR5 (5A)
Weight : 450g



OPTIONS -

IRT 103 individual control function.

IRT 803 multi-channel remote control with individual or master control functions (one to eight blinds).

Impulse switch connection for use without remote control (individual or master control).



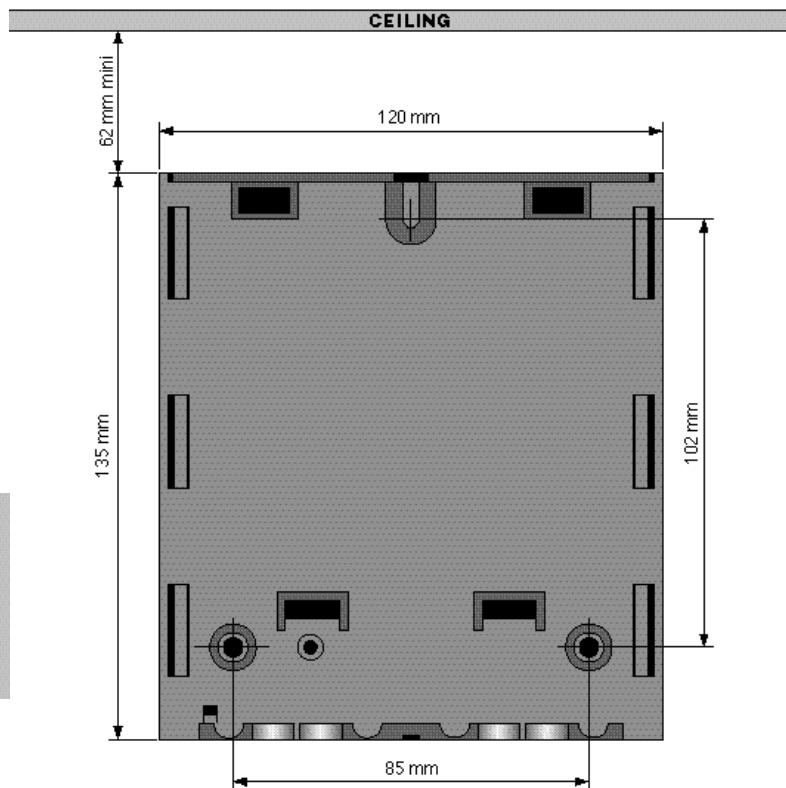
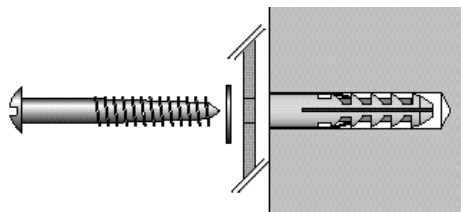
In compliance with the CE requirement.

2 Installation :

A Mounting :

The GPS 1020 has to be installed indoor.

1. Drill three holes in the wall at the desired location according to the mounting diagram.
2. Fix the top screw first and fit the base of the GPS1020 by sliding it over the head of the screw.
3. Slide the cover of the GPS 1020 upwards and fix the two base screws at the bottom of the unit.



B Wiring :

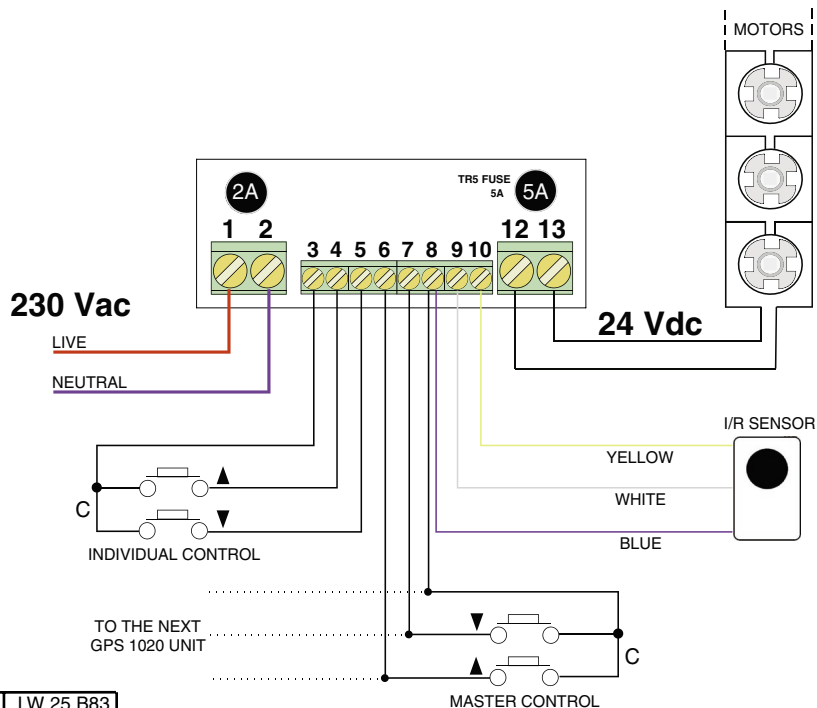
Cabling arrangements are shown in the diagram.

Respect the electrical standards as well as the following points:

Disconnect the main before carrying out any work.

Use flexible cables.

Ensure that no longitudinal forces act on the screw terminals after installation.



Maximum number of motors per GPS 1020	LT28	LV/LW 25 B44	LV 25 B64	LW 25 B83
GPS 1020 24 Vdc	10	11	9	7

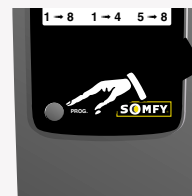
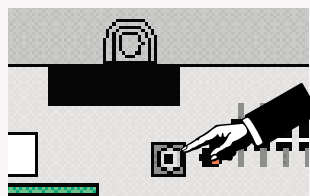
3 Programming :

Warning : If you use the IRT803, it is necessary to « lock » the GPS1020 units that are not being programmed by operating them in either UP or DOWN direction (they will be locked for 3 minutes and it is impossible to enter in the programming mode by the IRT803). To unlock them, give a STOP order.

Important : Carry out this operation as near as possible to the receiver of the blind that you wish to program.

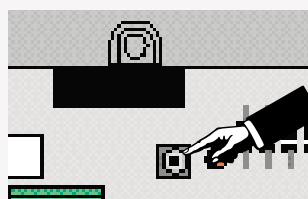
Enter the programming mode

Press and hold for at least 5 seconds the « prog » key on the IRT 803 transmitter, or the « prog » button inside the GPS 1020 unit.. The red LED inside the GPS 1020 flashes to indicate that you are in the programming mode for a period of 3 minutes.



Exit from the programming mode

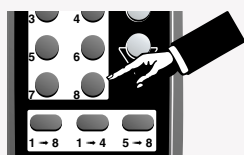
Press and hold for at least 5 seconds the « prog » key on the IRT 803 transmitter, or the « prog » button inside the GPS 1020 unit.. The red LED inside the GPS 1020 goes out.



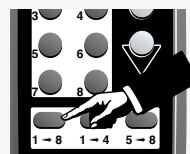
a To cancel and revert back to IRT 103 transmitter operation.



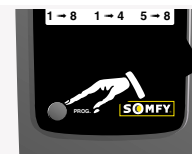
Enter the programming mode. The LED blinks according to the pre-set tilt mode.



Press the 8 button. The LED remains on.

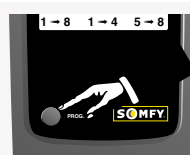


Press the button 1..8 Exit the programming mode by pressing the « prog » button.

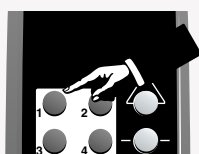


Press the « prog » button for at least 5 seconds to exit the programming mode.

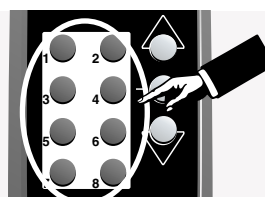
b How to assign a channel (IRT 803 only):



Enter the programming mode. The LED blinks according to the pre-set tilt mode.



Press the 1 button on the IRT 803 transmitter. The LED of the GPS 1020 unit illuminates.



Select the corresponding channel by pressing the relevant numbered button.



The channel is now assigned. The LED in the GPS 1020 unit blinks according to the pre-set tilting mode selected.

Exit the programming mode (see above).

c How to set the GPS 1020 in either the US or CE tilting mode:

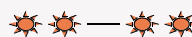


Enter the programming mode. The LED of the GPS 1020 unit will blink according to the tilting mode.



No tilting mode.

1 blink every 1 second.



CE tilting mode.

2 blinks every 1 second.



US tilting mode.

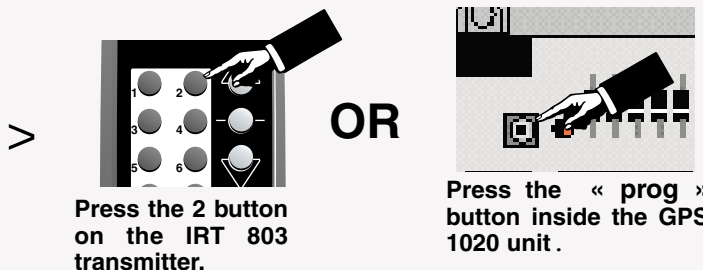
3 blinks every 1 second.

C How to set the GPS 1020 in either the US or CE tilting mode (cont.):

The unit is initially configured in the no tilting mode.

To toggle between the tilting modes:

Enter the programming mode.

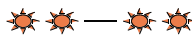


If the button is pressed again, the unit will move on to the next tilt mode.

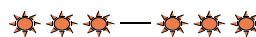
Example:



No tilting mode.



CE tilting mode.



US tilting mode.

Enter the programming mode.

The LED flashes to indicate it's present tilt mode.

Press the 2 button on the IRT 803 or the « prog » button on the GPS 1020.

Press the 2 button on the IRT 803 or the « prog » button on the GPS 1020.

By following the same instructions you will revert back to the initial no tilting mode and so the process continues.

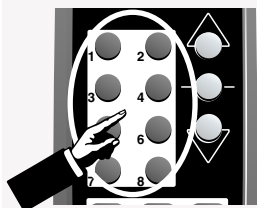
4 Operation :

IRT 103 - To raise or lower the blind, momentarily press the corresponding button (up or down). To stop the blind press the stop button.

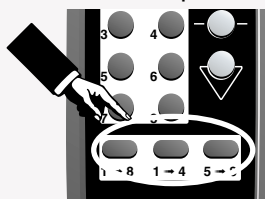
IMPULSE - SWITCH - To raise or lower the blind, momentarily press the corresponding button (up or down). To stop the blind, press the stop button or push the up and down buttons simultaneously. Alternatively a double depression on either the up or down button will stop the blind.

IRT 803 - To raise or lower the blind, momentarily press the corresponding button (up or down).

Point the transmitter at the Infra-red sensor which corresponds to the GPS 1020 unit you wish to control.

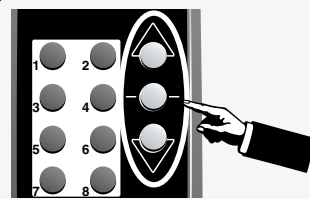


If you wish to control one GPS 1020 unit, press the corresponding button of the channel you have selected.



If you wish to control a group of GPS 1020 units, press on the corresponding button :

1..4 5..8 1..8



Then you can control the GPS 1020 unit by pressing the buttons : **UP** , **DOWN** or **STOP**.

5 Tilting function :

CE tilt mode.	Impulse control order shorter than 2 seconds - The blind will operate for the duration of the control order. Continuous control order longer than 3 seconds - A 3 minute command will be activated.
US tilt mode.	Impulse control order shorter than 0.5 seconds or continuous control longer than 6 seconds - A 3 minute command will be activated. Continuous control longer than 0.5 seconds and shorter than 6 seconds - The blind will operate for the duration of the control order.

6 Malfunctions :

The Blinds won't move	<ol style="list-style-type: none">1- Check the power supply of the GPS 1020 unit.2- Check the battery level of the transmitter.3- Check the wiring of the receiver, IR sensor and the switch connections.4- Check the fuse of the receiver (TR5).5- Check the programming.
There is no operation with the transmitter.	<ol style="list-style-type: none">1- Check the battery level of the transmitter.2- Check if there is a bright light shining on the receiver.3- Check if you are within the infrared transmission range.4- Check if you are aiming the transmitter at the receiver correctly.
Up and Down is reversed when operating with the transmitter or switch.	<ol style="list-style-type: none">1- Check the motor wiring.2- Check the switch wiring.