Somfy RTS Motor Programming Instructions
Motor Programming Instructions have been rewritten by http://www.AVOutlet.com

Please Read and Follow These Instructions.

Please use the motor programming instructions provided here. The remote control instructions can be used for reference and they are not as accurate as these programming instructions. Copies of the Somfy instructions are also provided for your reference.

Please read installation instructions and programming instructions completely prior to proceeding with installation and programming. Failure to do so can result in damage to the motor and or the shade.

Be prepared to stop the shade during programming. The programming step where you set the first stop limit (upper or lower whichever you do first) will activate the motor to move without stopping on its own. You will need to stop the motor at the next stop limit using the remote as indicated or the shade and motor can get damaged.

If you have any questions regarding programming or installation please call AV Outlet at 1-877-271-5398

The motors MUST be installed in the tube and the assembly must be mounted into brackets to be able to program the motor.

Only apply power to the motor being programmed regardless if the other motors have been programmed or not. This will prevent inadvertent interaction with other motors.

We recommend mapping out the installation before proceeding. This will reduce set-up time and make life easier. Decide the channels and or additional remotes to be assigned to each shade in the installation. Each shade should be completely programmed before moving to the next. Have the necessary remotes and controls ready prior to proceeding.

All motors assigned to the SAME Channel of a multi-channel RTS remote will operate at the same time. All motor assigned to a Single Channel RTS remote will always operate at the same time. If you want individual control you must use separate channels on multi-channel remotes or separate remotes if using a single channel remote.

The remote controls are generally considered to be dummy devices as they do not store any motor information or programming information. The motors are the intelligent devices. The motors store the shade operation limits in their memory and the motors also memorize the specific remotes or channels assigned to control them. Each motor can have many remotes or channels controlling them so installation and control is quite flexible.

Note: The Telis 4 Remote Control is a 5 Channel Remote control. The 5th channel is all lights on. The 5th channel by default is not a group channel. This channel is not automatically assigned and must be programmed.
Please read the previous page before proceeding.

**Step 1 - Assign a RTS Channel to the Remote**
1-A) Select the RTS Remote Control and Channel you want to use.

1-B) Press and hold both the **UP** and **DOWN** buttons simultaneously until the motor jogs, then release. (A jog is a short up and down movement of the motor)

**Step 2 - Check Motor Direction and Change if Necessary**
2-A) Check the direction of operation (the motor will operate in momentary fashion). Confirm that the **UP** button brings the shade **UP** and **DOWN** brings the shade **DOWN**.

2-B) **Changing the direction (if needed)**, press the **STOP** or **MY** button for more than 5 seconds until the motor jogs, then release. Re-Check the direction.

**Step 3 - Set Lower and Upper Shade Limits**
3-A) Move the shade to the desired lower limit position using the remote control directional control buttons on the remote control. The shade will only move when the button is being pressed.

3-B) Press both the **STOP** or **MY** and **UP** buttons simultaneously until the motor begins to move up, then release. Be prepared to stop the shade manually using the **STOP** or **MY** button. Stop the shade and adjust to your desired upper limit position.

3-C) Press both the **STOP** or **MY** and **DOWN** buttons simultaneously until the motor begins to move Down, then release. The shade will move down to the already set lower limit position and will stop on its own.

**Step 4 - Store the Limits in the Motor Memory**
4-A) Press the **STOP** or **MY** button for 5 seconds until the motor jogs. The limits are now recorded. The shade will NOT move in an automatically move to a limit with one button press yet!! Perform the next step.

**Step 5 - Exit and Save Initial Programming**
5-A) Press the program button on the remote control for app. 3 seconds until the motor jogs once. This jog is usually a long jog. The program button is typically on the backside of a hand held remote control or front of a wireless wall switch. A paperclip will be needed to press the program button. Note: These program buttons do not need to be pressed hard. If you are having difficulty pressing the button please use a larger diameter paperclip.

You can now use the shade if no additional remotes are to be assigned to the motor or if you are not going to set an intermediate **MY** customer preferred position. With one momentary button press of the remote control button the shade should move the programmed limit.
**Optional Programming Tasks**

These procedures can be done at any time but we do recommend performing all desired additional tasks before moving onto the next shade. All shades not being programmed should have the power disconnected.

**Set the Customer Preferred MY Intermediate Position**

1) Using the remote position the shade to the location you would like as your intermediate customer preferred position

2) Press the STOP button for app. 3 seconds until the motor jogs, then release. **Note:** Simply repeat these steps if you want to changed the intermediate position to a new position even if one has already been programmed.

**Add a Remote or Channel to Control the Same Shade (If Desired)**

1) To ADD another remote control or another RTS channel to the motor memory, press the programming button on the previously recorded remote control until the motor jogs.

2) Select the new remote or RTS channel to add to the motor memory and press its programming button until it jogs, then release.

**Delete a Remote or Channel from the Motor Memory**

1) To DELETE a remote control or channel, press the programming button of a previously recorded channel or remote until the motor jogs. (This remote or Channel is the one to keep)

2) Select the remote or channel to delete and press its programming button until the shade jogs, then release.

**Adjusting the Lower Limit**

1) Move the shade to its current lower limit position and let it stop.

2) Press the UP and DOWN buttons simultaneously until the motor jogs, then release.

3) Adjust to a new lower limit position. Press and hold STOP button until the motor jogs, then release.

**Adjusting the Upper Limit**

1) Move the shade to its current upper limit position and let it stop.

2) Press the UP and DOWN buttons simultaneously until the motor jogs, then release.

3) Adjust to a new upper limit position. Press and hold STOP button until the motor jogs, then release.
Resetting and Clearing the Motor Memory

**Note:** Some motors will not respond to the reset procedure if they have not already been completely programmed. If you are stuck in a programming step and the motor is not resetting simply unplug the motor for 2 minutes and then start programming from the beginning.

**R28 Motor - Resetting and Clearing the motor memory**
Press the program button on the Motor until the shade jogs 3 times while continuously pressing the button. If you only get one 2 jogs and then let go of the button you will have to start over and get 3 jogs consecutively. There will be a pause between jogs so please be patient. The program button is in a hole located next to the power connection and antenna. A paperclip will be needed to press the program button.
**Note:** These program buttons do not need to be pressed hard. If you are having difficulty pressing the button please use a larger diameter paperclip. The reset procedure on this motor does not work unless it has been completely programmed.

**LT30 Motor - Resetting and Clearing the motor memory**
Press the program button on the Motor until the shade jogs 3 times while continuously pressing the button. If you only get one 2 jogs and then let go of the button you will have to start over and get 3 jogs consecutively. There will be a pause between jogs so please be patient. The button is in a hole located next to the power connection and antenna. A paperclip will be needed to press the program button.
**Note:** These program buttons do not need to be pressed hard. If you are having difficulty pressing the button please use a larger diameter paperclip.

**ST30 Motor - Resetting and Clearing the motor memory**
Press the program button on the Motor until the shade jogs 3 times while continuously pressing the button. If you only get one 2 jogs and then let go of the button you will have to start over and get 3 jogs consecutively. There will be a pause between jogs so please be patient. The Sonessse 30 has two holes with recessed buttons. The White hole has the program button and the yellow is for manually activating the shade to move.
**Note:** These program buttons do not need to be pressed hard. If you are having difficulty pressing the button please use a larger diameter paperclip.

**ST40 & ST50 Motors Resetting and Clearing the Motor**
This reset procedure is finicky. Several attempts may be required.
1) Disconnect power for 2 seconds.
2) Connect power for 5 seconds.
**Note:** Somfy recommends 10-15 seconds but we found 5 seconds to work better.
3) Disconnect power for 2 Seconds
4) Connect power and then leave it on. The motor will rotate in one direction if the shade is between limits or will jog if at one of the programmed stops.
4) Press and hold the programming button (App. 10 sec) on any RTS remote until the shade jogs twice. There will be a pause between the jogs. Do not release the program button until the second jog is complete. (The remote used does not have to be the one already programmed to the shade) The motor is now ready for programming from the beginning.
ST30 Crown and Drive Installation

1. Remove Crown, Drive, washer and screw.

2. Set aside the 2 external screws that are from the supplied crown and drive pack.

3. Slide the plastic crown onto the motor.

4. Slide the nut/weight device onto the motor drive.

5. Apply light weight oil (vegetable oil) onto gear.

6. Pull the washer onto the screw.

7. Insert the screw into the hole at the end of the tool.

8. Pull the washer onto the screw.

9. Apply a light weight oil (vegetable oil) onto gear.

10. Slide the nut/weight device onto the motor drive.

11. Slide the plastic crown onto the motor.

12. Make sure the screws are flushed inside the tool. Sometimes the screws are worn inside and are shorter than the one shown above.

13. Set aside the 2 external screws that are from the supplied crown and drive pack.

14. Remove Crown, Drive, washer and screws.
SAFETY

• This Somfy product must be installed by a professional motorisation and home automation installer, for whom these instructions are intended.
• Before installation, check that this product is compatible with the associated equipments and accessories.
• These instructions describe how to install, commission and use this product.
• Moreover, the installer must comply with current standards and legislation in the country in which the product is being installed, and inform his customers of the operating and maintenance conditions for the product.
• Any use outside the sphere of application specified by Somfy is not approved. Such use, or any failure to comply with the instructions given herein will invalidate the warranty, and Somfy refuses to accept liability.

COMPATIBLE BLINDS

- Roller blinds
- Venetian blinds
- Roman shades

GENERAL SAFETY INSTRUCTION

The safety instructions that must be observed, besides the usual rules, are explained in these instructions and in the attached «Safety Instructions» document.

- Never immerse the motor in liquid!
- Avoid impacts!
- Never drill holes in the motor!
- Do not drop it!
INSTALLATION

Motor preparation

1) Fit the crown (a) and drive wheel (b) to the motor.

2) Measure the length (L) between the middle of the drive wheel and the head end.

Tube preparation

Cut the tube to the required length. Deburr the tube and remove the debris.

Motor/tube assembly

1) Slide the motor into the tube.

2) Fix the tube to the motor with self-tapping screws or steel pop rivets depending on the dimension (L).

Mounting the motorized tube on the brackets

If necessary, screw the bracket interface on the motor head.
1) Mount the motorized tube on the end bracket (c).
2) Mount the motorized tube on the motor bracket (d).

Wiring

Connect the power cable to the motor.
COMMISSIONING

Programming the RTS control point

Switch on the power supply. Press the UP and DOWN buttons simultaneously on the RTS control point: the shade moves for a few seconds and the control point is preprogrammed in the motor.

Checking the direction of rotation

Press the RTS control point UP button:

a) If the shade is raised, the direction of rotation is correct: move to the section entitled «Adjusting the end limits».

b) If the shade is lowered, the direction of rotation is incorrect: move to the next step.

Press the RTS control point MY button until the shade jogs: the direction of rotation has been modified. Press the RTS control point UP button to check the direction of rotation.

Adjusting the end limits

The limits can be set in any sequence.

1) Press and hold the UP button to move the shade to the desired up position.

2) Press the MY and DOWN buttons simultaneously and release them once the shade begins to move. The up limit is memorized.

3) Press the MY button when it reaches the desired down position. If necessary adjust the down position, using the UP or DOWN buttons.

4) Press the MY and UP buttons simultaneously and release them when the shade begins to move. The down limit is memorized. The shade moves up and will stop at its upper limit.

5) To confirm the end limits press and hold the MY button until the shade jogs. The end limits are recorded.

Recording the RTS control point

Press the programming button on the back of the RTS control point until the motor jogs. The RTS control point address is permanently recorded.
**USE**

**Mode Selection:**
**Roller or Tilting mode**

By factory default, the motor is in Roller mode but you can change from one mode to another. Move the shade away from the end limits.

1) Press the UP and DOWN buttons until the shade jogs.

2) Press and hold the MY and DOWN buttons simultaneously until the shade jogs to change from Roller mode to Tilting mode.

**MY position**

1) **Recording MY position.**
   To set the MY position, move the shade to the desired position with the UP and DOWN buttons then press the MY button until the shade jogs.

2) **Changing the MY position**
   To change the MY position go to the new desired MY position with the UP and DOWN buttons then press the MY button until the shade jogs.

3) **Delete the MY position**
   To delete the MY position, move to this position and press the MY button until the shade jogs.
Sun disappearing position

This function is available only if a MY position is recorded.

1) Recording Sun disappearing position.

Press and hold the MY and DOWN buttons simultaneously until the shade jogs.

Move the shade to the desired position with the UP and DOWN buttons.

Press and hold the MY button until the shade jogs.
The sun disappearing position is recorded.

2) Changing the Sun disappearing position.

Press the MY and DOWN buttons simultaneously. The shade moves to the Sun disappearing position.

Move the shade to the new desired position with the UP and DOWN buttons.

Press and hold the MY button until the shade jogs.
The sun disappearing position is changed.

3) Delete the Sun disappearing position.

Press the MY and DOWN buttons simultaneously. The shade moves to the Sun disappearing position.

Press and hold the MY button until the shade jogs.
The sun disappearing position is deleted.
UP, DOWN and MY

In roller mode

1) To move the shade from a limit to the other limit, press briefly the UP or DOWN button.

2) To stop the shade, press the MY button.

3) To move the shade to the MY position, press briefly the MY button.

In tilting mode

1) To move the shade from a limit to the other limit, press briefly (less than 0,5s) the UP or DOWN button.

2) To stop the shade, press the MY button.

3) To move the shade to the MY position, press briefly the MY button. The Venetian blind goes first to the down end-limit, then to the MY position.

4) To tilt the slats, press and hold the UP or DOWN button or use the scroll of the remote control until the slats reach the desired position.
Adding/Deleting RTS control points

Find an RTS control point programmed in the motor. Press and hold the RTS programmed control point (A) PROG button or the motor PROG button until the shade jogs: the motor is in programming mode. Quickly press the RTS control point (B) PROG button to add or delete: the shade jogs and the RTS control point is programmed or deleted from the motor.

Adding/Deleting RTS sensors

Find an RTS control point programmed in the motor. Press and hold the RTS programmed control point (A) PROG button or the motor PROG button until the shade jogs: the motor is in programming mode. Quickly press the RTS sensor (C) PROG button to add or delete: the shade jogs and the RTS sensor is programmed or deleted from the motor.
Sun function

For this function, you need a Telis Soliris transmitter.
By default, the Sun function is not active.
1) To activate the Sun function, press the SELECT button on the Telis Soliris transmitter until the shade jogs.
2) To disactivate the Sun function, press the SELECT button on the Telis Soliris transmitter until the shade jogs.

When the intensity of the daylight exceeds the threshold set by the soliris sensor RTS, a DOWN order is sent to the shade after 2 min. The shade goes to the MY position or to its down limit if no MY position has been memorised.

When the intensity of the daylight falls below the threshold set by the SOLIRIS sensor RTS, the shade goes to the sun disappearing position or stays at its position (MY or down limit) if no sun disappearing position has been memorised.

The Wind function is not compatible with this motor.
Adjusting the roller speed

1) Press the UP, MY and DOWN buttons simultaneously until the shade jogs once. The shade moves up and down automatically in 10 second cycles.

2) While the shade is moving, briefly press the UP button to increase the speed or DOWN button to decrease the speed.

3) To confirm the new speed, press and hold the MY button until the shade jogs.

Adjusting the tilting speed

1) Press the UP, MY and DOWN buttons simultaneously until the shade jogs twice. The shade moves up and down automatically in 10 second cycles.

2) While the shade is moving, briefly press the UP button to increase the speed or DOWN button to decrease the speed.

3) To confirm the new speed, press and hold the MY button until the shade jogs.
End limit re-adjustement

UP LIMIT

1) Press the UP button, to move the shade to the limit to be readjusted.

2) Press and hold the UP and DOWN buttons simultaneously until the shade jogs.

3) Press and hold the UP or DOWN button to move the shade to the new desired position.

4) To confirm the new limit press and hold the MY button until the shade jogs.

DOWN LIMIT

1) Press the DOWN button to move the shade to the limit to be readjusted.

2) Press and hold the UP and DOWN buttons simultaneously until the shade jogs.

3) Press and hold the UP or DOWN button to move the shade to the new desired position.

4) To confirm the new limit press and hold the MY button until the shade jogs.
Modifying the motor rotation direction

Move the shade away from the end limits.

1) Press the UP and DOWN buttons simultaneously until the shade jogs.

2) Press the MY button until the shade jogs to reverse the rotation direction.

3) Press the UP button to check the new direction of rotation.

Modifying the wheel rotation direction

Move the shade away from the end limits.

1) Press the UP and DOWN buttons simultaneously until the shade jogs.

2) Press the UP, MY and DOWN buttons simultaneously until the shade jogs to reverse the wheel rotation direction.

Erasing the transmitters of the motor

To delete all the transmitters programmed, press and hold the motor prog button until the shade jogs twice. All the transmitters are deleted.

Erasing the sensor of the motor.

To delete all the sensors programmed, press and hold the RTS programmed control point (A) PROG button or the motor PROG button until the shade jogs. Quickly press and hold the RTS sensor (C) PROG button until the shade jogs twice. All the sensors are deleted.

Erasing the memory of the motor

To reset the motor, press the prog button on the motor head until the shade jogs 3 times. All the settings are erased.
Technical data

<table>
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<tr>
<th>Voltage</th>
<th>24V</th>
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<tbody>
<tr>
<td>Frequency</td>
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</tr>
<tr>
<td>Operating temperature</td>
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<tr>
<td>Protection rating</td>
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<tr>
<td>Torque</td>
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<tr>
<td>Adjustable Speed</td>
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<tr>
<td>Roller Speed</td>
<td>28 rpm</td>
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<tr>
<td>(By default)</td>
<td></td>
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<tr>
<td>Tilting Speed</td>
<td>16 rpm</td>
</tr>
<tr>
<td>(By default)</td>
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Troubleshooting

The motor doesn't work:
Verify:
• The wiring of the motor.
• The power supply specifications.
• The compatibility of the control
• The heat generated (wait 5 minutes for the cooling of the motor).

The equipment stops too soon:
Verify:
• The operation of end-limits during the rotation of the motor.
• The crown is properly fitted to the tube.
• The end-limits of the motor are properly adjusted.
• Verify that the shade is within the recommended weight limit.