Controlling the Somfy Sonesse 50 shade motor via RS-232 with Total Control.

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This article covers how to configure Total Control to work with the Somfy Sonesse 50 shade motor via RS-232. This includes gathering the information to control the motor, and creating a driver for use in Accelerator.

Gathering information to control the motor:

First download and install the following Somfy software programs (click name to download), then follow the steps:

- Somfy SDN Motor Configurator 5.2
- Somfy ILT Command Calculator
- Open the Somfy SDN Motor Configurator and the Somfy ILT Command Calculator programs on your computer.
- Connect the motor to the Somfy 485 Setting Tool. Next you need to get and write down the Node ID and set Up and Down limits for the motor using this tool before proceeding to Step 3.
- 3. Connect the **USB** to **RS-232** cable to computer.
- Install the B&B RS-485 Electronics converter and add the external power supply (12V DC 1mA) to the motor. Connect the cables together and select a COM PORT.
- 5. Go to the **Somfy SDM Motor Configurator** program and connect using the

active COM PORT

- Select the Single Option and select Get Single Motor Address (This should be the same Node ID that you retrieved in Step 2).
- 7. Go to Group Address and add a group starting with 200000, keeping in mind that each motor requires its own group (example 200000, 200001, etc.)
- 8. Next, go to **Set Groups.** Groups will now be displayed.
- Now go to Test: Select limit up / Limit Down (Motor will move to previously limits set in Step 2.)
- 10. Go to the Somfy SDN String Calculator program
- 11. Select Group Address & All Commands
- 12. Type in the Group Address for the motor (example 200000) and then Calculate.
- 13. The commands are the **hex codes** for creating a driver for **Accelerator**.

Creating the Accelerator driver to control the motor:

 Open Accelerator, go to Step 4-Add Other Devices and click Create New Driver

| 1 | Accelerator 2 - Engine | eering - C:\Users\Family\Desktop\latest configs\012518.tc2 | – o × |
|---|--|--|---------------|
| File My Database Program Tools | Communications Help | | 1.1.0131.1e 💡 |
| INE & ZAId 3Add URC 4Add Other 5 Says 5 INE & ZAId 3Add URC 4Add Other 5 Says 5 Inter & ZAId 3Add URC 4Add Other 5 Says 5 Inter & ZAId 3Add URC 4Add Other 5 Says 5 Inter & ZAId 3Add URC 4Add Other 5 Says 5 Inter & ZAId 3Add IRC 4Add Other 5 Says 5 Inter & ZAId 3Add IRC 4Add Other 5 Says 5 Inter & ZAId 3Add IRC 4Add Other 5 Inter & Context 1 Inter & ZAId 3Add IRC 4Add Other 5 Inter & Context 1 I | Accelerator 2 - Engine Communications Help Table All Horives T. All Inputs B.DMS Subject In Designer Setting Add Non-IRC Devices - Lives Desc System Designer Subject Nodel Non-IRC Devices - Lives Desc Made Setter Add Non-IRC Devices - Lives Desc Made Setter Add Non-IRC Devices - Lives Desc Sources - Lives Devices - Lives Desc Made Setter Add Non-IRC Devices - Lives Desc Sources - Lives Devices - Lives Desc Made Setter Add Non-IRC Devices - Lives Desc Sources - Lives Devices - Lives Desc Made Setter Add Non-IRC Devices - Lives Desc Sources - Lives Desc Sources - Lives Desc Sources - Lives Devices - Lives Desc Made Setter Add Non-IRC Desc Ma | eering - C-(Users)Family/Desktop/latest configs;012518.tc2 | - C X |
| TRC-820 up 5000 2005 Besement [046-1200,Zone2] Besenvent | R Port ALL Repeat: 3 : | 9. Yolume Popup Available | CAP NUM SCR. |

 Change the Category to AUX, select Somfy for a brand, highlight Somfy 1, then click Select This Device and choose General Device when asked to select device type.

| Module Type : | Category : |
|--|--|
| IR Database | - AUX |
| Brand : | Model : |
| SCHMARTZ SCIENTIFIC ATLANTA Sherwood Shinybow SIWERSTONE SIMA SKARDIN SOLO ELECTRONICS Sonfy Sonarce Song SpeakerCraft STARCOM STARCOM STARAS TEN TECHNOLOGY TIVAX TOUCHSTONE TIVAX TOUCHSTONE TRIBUTARIES TURBOSCAN TVPad Universal Remote Control Vantage Velodyne VERLS | Standard Database Models IRT-103 IRT-803 MULTI-LINK SERIES [Somfy 1] [Somfy 2] [Somfy 4] |

Edit the driver information as seen in the picture below. ForModels, use the name of the room where the shade is mounted. Be sure to edit the control type to RS232 and edit the lcon to include a picture.

| Device Driver Edit | Σ |
|--|---|
| Image: New Open Save Save Save As Edit Information Edit Functions | |
| - Driver Information Brand : Somfy Models : Ad Delete LIVING ROOM | Outputs Outputs Add Delete Volume Popup : Disabled |
| Device Type Category : Default Sub-Menu : AUX Comfort Control Types : Edit Project Tree Name (Button Name) : | Power Management & Macro Delay Power On Delay (sec) 0.5 * Power Off Delay (sec) 0.5 * Macro Interstep Delay (sec) 0.2 * c Analog/Digital Input |
| RS232 Shades Icon : Edit Shades1_482121 Device Layout and Sync Acceleration Option Change the default settings for how Accelerator will ensempt which device user interface. You can adjust Edit | List the inputs that will be used with the device. They will be added to the main and zone function lists. Edit List the inputs that will be used for the sources that are built into this device. They will be added to the main and zone function lists, and an indepentent function list for controling the built in source will also be created. Edit Edit Edit Edit Edit Edit Edit Edit |
| which layouts are generated and which will be synced or un-synced. | This Device is an AV Source or Switcher : Yes |

4. Next, click Edit Functions.

| Open Save Save As | | |
|---|--|--|
| · Information | Driver Properties | |
| mfr | Coutputs | 2-way (VFD) |
| my | Main Functions Edit | |
| dels : Add Delete | Add | Select Module |
| ING ROOM | Delete | Info |
| | Volume Popup : Disabled | |
| | Power Management & Macro Delay — | |
| rice Type Category : Default Sub-Menu : | Power On Delay (sec) 0.5 | * |
| v v v Comfort v | Power Off Delay (sec) 0.5 | * |
| Control | Macro Interstep Delay (sec) 0.2 | * |
| trol Types : Edit Project Tree Name (Button Name) : | Analog/Digital Input | - Built-In Sources |
| 232 Shades | List the inputs that will be used with the | List the inputs that will be used for the |
| | device. They will be added to the main | sources that are built into this device. They will be added to the main and zone function |
| Icon : Edit | | lists, and an indepentent function list for |
| Shades1_4B2121 | | created. |
| nice I supply and Curs Acceleration Option | Edit | Edit |
| vice Layout and Sync Acceleration Option | | |
| Change the default settings for how Accelerator will Edit | | |
| which layouts are generated and which will be synced or | | |
| un-synced. | | |

 Edit the Driver Information to match the image below, and deselect all of the functions by clicking on Show at the top of the column, this will clear out all of the check marks population the boxes.

| Diveor | e Driver Edit | | | | | | | | ٤ |
|-------------------|---|---|------------------------|---------------|--------------------------|---|---------------------------|------------|--|
| New S232 | Open Sa | ve Save As Edit Inform | ation Edit Functions | | | | | | |
| Driver I | nformation | 4800 - | Default Repeat Value - | 1 | For testing Test Thro | ugh Base Station – | | Serial Nav | vigator |
| Data | | × 8 | Minimum Repeat When | n Pressed : 1 | TYPE : MAC : | 4RX-10 D0:00:00:00:00:00 | <u>·</u> | | |
| Stop | | 1 * | Repeat while butto | n is pressed | IP: | 0.0.0.0 Disc | over | | |
| ☑ Terr | minate with carria | ge return | Ramp Speed : 10 | x 10)msec | Repeat : | 1 | \$ | | |
| unction l | .ist Main Functio | ons | · [| | Wait(msec) | : 0 | \$ | Options | |
| unction I | .ist Main Functio | Eurction Display Name | | Function Data | Wait(msec) | : 0 | \$ Special | Options |] |
| unction I Show | ist Main Function Button ID 9 | ons Function Display Name 9 | Description | Function Data | Wait(msec) | : 0 Custom Option Default | \$ Special Quickbar | Options | |
| Inction I Show | ist Main Function Button ID 9 P10 | ons Function Display Name 9 P 10 | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default | \$ Special Quickbar | Options | |
| Inction I Show | ist Main Function Button ID 9 P10 ENTER | P10 ENTER | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default | \$ Special Quickbar | Options | Add Function |
| unction I Show | ist Main Function Button ID 9 P10 ENTER Common | Punction Display Name 9 P10 ENTER Shade Up | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default | \$ Special Quickbar | Options | Add Function |
| Inction I Show | ist Main Function Button ID 9 P10 ENTER Common Common | Pinction Display Name 9 P10 ENTER Shade Up Shade Down | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default | \$ Special Quickbar | Options | Add Function Edit Function |
| show | ist Main Function Button ID 9 P10 ENTER Common Common Common | ons Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default | \$ Special Quickbar | Options | Add Function Edit Function Delete Function |
| show | Ist Main Function 9 9 P10 ENTER Common Common Common | ons Function Display Name 9 P10 ENTER Shade Up Shade Up Shade Down Shade Stop Common | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default Default | \$ Special Quickbar | Options | Add Function Edit Function Delete Function |
| Show | Ist Main Function 9 910 ENTER Common Common Common Common | PIO Function Display Name 9 P10 ENTER Shade Up Shade Up Shade Down Shade Stop Common Common | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default Default Default | \$ Special Quickbar | Options | Add Function Edit Function Delete Function Reorder Function |
| Show | ist Main Function Button ID 9 P10 ENTER Common Common Common Common Common | Photo Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common Common Common | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default Default Default | \$ Special Quickbar | Options | Add Function Edit Function Delete Function Reorder Function |
| unction I Show | Ist Main Function 9 P10 ENTER Common Common Common Common Common Common | PIO Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common Common Common Common | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default Default Default Default Default | \$ Special Quickbar | Options | Add Function Edit Function Delete Function Reorder Functions Test Function |
| Show | Ist Main Function 9 9 P10 ENTER Common Common Common Common Common Common Common | nns Function Display Name 9 P10 ENTER Shade Up Shade Up Shade Stop Common Common Common Common Common | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default Default Default Default Default | \$ Special Quiddbar | Options | Add Function Edit Function Delete Function Reorder Functions Test Function |
| Show | Ist Main Function 9 9 P10 ENTER Common Common Common Common Common Common Common Common | Procession Display Name P P D ENTER Shade Up Shade Down Shade Stop Common Common Common Common Common Common Common | Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default Default Default Default Default Default Default Default | \$ Special Quidbar | Options | Add Function Edit Function Delete Function Reorder Functions Test Function |

6. Scroll down to Common in the Function List and edit the Function Display Name field to create a button for each function you would like (example: Shade Up, Shade Down, etc.). Click the box under the Show field for each of the created buttons as seen in the image below. After creating and selecting your buttons, select one and click Edit Function to add the HEX code for the selected button.

| Device | e Driver Edit | | | | | | | | 2 |
|--|--|---|---|---|--|---|-----------------------------|-----------|---|
| New S232 | Open S | ave Save As Edit Inform | etition Edit Functions | | | | | | |
| -Driver Ir Baud R Data Parity Stop Data E | nformation — Rate Encryption: | 4800 * 8 * Odd * 1 * HEX * | CDefault Repeat Value — Repeat : Minimum Repeat When Repeat while button Ramp Time Ramp Start : 10 Deep Second : 10 | 1 \$ Pressed : 1 is pressed x 10)msec x 10)msec | For testing Test Thro TYPE : [MAC : [IP :] Target — Serial Po Repeat : | ugh Base Station 4RX-10 00:00:00:00:00:00:00 0.0.0.0 Disc rt 1 1 | ▼ over | erial Nat | rigator |
| Unction I | List Main Func | tions | * | x 10/msec | Wait(msec) | : 0 | * | ntions | |
| Unction L | List Main Func | tions | Pescintion | X 10/msec | Wait(msec) | : 0 | \$ Special O | ptions |] |
| Unction L Show | List Main Func | tions Function Display Name 9 | Kamp speed : 10 | Function Data | Wait(msec) | : 0 Custom Option Default | \$ Special O Quickbar | ptions | |
| Unction L Show | List Main Func Button ID 9 P10 | tions Function Display Name 9 P10 ENTED | Kamp speed : 10 | Function Data | Wait(msec) | : 0 Custom Option Default Default | \$ Special O Quickbar | ptions | Add Function |
| Unction L Show | List Main Func Button ID 9 P10 ENTER | tions Function Display Name 9 P10 ENTER Stande Im | Kamp speed : 10 V Description | Function Data | Wait(msec) | : 0 Custom Option Default Default Default | \$ Special O Quickbar | ptions | Add Function |
| Function L Show | List Main Func Button ID 9 P10 ENTER Common | Function Display Name 9 P10 ENTER Shade Dpun | Construction | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default | \$ Special O Quickbar | ptions | Add Function Edit Function |
| Show | List Main Func Button ID 9 P10 ENTER Common Common | Function Display Name 9 P10 ENTER Shade Up Shade Ston | Kamp speed : 10 | Function Data | Wait(msec) | : 0 Custom Option Default Default Default Default | \$ Special C Quickbar | ptions | Add Function Edit Function Delete Function |
| V Ten | List Main Funct Button ID 9 P10 ENTER Common Common Common | tions Function Display Name 9 P10 ENTER Shade Up Shade Stop Common | Kamp speed : 10 | Function Data | Wait(msec) | Custom Option Default Default Default Default Default Default | \$ Special C Quickbar | ptions | Add Function Edit Function Delete Function |
| V Ten | List Main Func Button ID 9 P10 ENTER Common Common Common Common | tions Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common | Kamp speed : 10 | Function Data | Wait(msec) | Custom Option Default | \$ Special C Quiddbar | ptions | Add Function Edit Function Delete Function Reorder Function |
| Show | List Main Func Button ID 9 P10 ENTER Common Common Common Common Common Common | tions Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common Common | Construction | Function Data | Wait(msec) | Custom Option Default Default Default Default Default Default Default Default | \$ Special C Quiddbar | ptions | Add Function Edit Function Delete Function Reorder Function |
| Show | List Main Func Button ID 9 P10 ENTER Common Common Common Common Common Common Common | tions Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common Common Common | Contraction | Function Data | Wait(msec) | Custom Option Default Default Default Default Default Default Default Default Default | \$ Special C Quickbar | ptions | Add Function Edit Function Delete Function Test Eurocian |
| Show | List Main Func Button ID 9 P10 ENTER Common Common Common Common Common Common Common Common Common Common | tions Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common Common Common Common Common | Kamp speed : 10 v | Function Data | Wait(msec) | Custom Option Default Default Default Default Default Default Default Default Default Default Default | \$ Special C Quickbar | ptions | Add Function Edit Function Delete Function Reorder Function Test Function |
| | List Main Func Button ID 9 P10 ENTER Common Common Common Common Common Common Common Common Common Common Common | tions Function Display Name 9 P10 ENTER Shade Up Shade Down Shade Stop Common Common Common Common Common Common Common Common | Kamp speed : 10 Description | Function Data | Wait(msec) | Custom Option Default | \$ Special C Quiddbar | ptions | Add Function Edit Function Delete Function Reorder Function Test Function |

 Copy the HEX code from the Somfy SDN String Calculator and paste it in the HEX Data field. IMPORTANT-You must add commas to the pasted code as seen in the image below! Click OK after adding code.

| Edit Function |
|--|
| Name Shade Up |
| Data O ASCII O HEX O DECIMAL |
| AB,F1,20,05,0F,FF,FF,FF,EF,FF,F94 |
| Test Result Test |
| |
| Use Custom Function Data Repeat |
| Data |
| Repeat : |
| Minimum Repeat When Pressed : 1 🔶 |
| Repeat while button is pressed |
| |
| Override Button with Macro Commands Edit Macro |
| |
| OK Cancel |

- 8. Add the edited HEX code for each of the buttons you created, being sure to add the commas.
- 9. Save the driver then import it into the Project Tree.
- 10. Go to Step 5 in Accelerator and assign the serial port number.
- 11. Go to **Step 10 and Accelerate**, Go to **Step 12 and Accelerate**. Download and test.