

SOMFY CONNECT™ BMS



INTEGRATION GUIDE

SOMFY CONNECT™ BMS

VERSION 1.0 | NOVEMBER 2020 | Prepared by PROJECT SERVICES

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I. OVERVIEW

The Somfy Connect™ BMS Interface provides communication and control between Building Management Systems either as a stand-alone Somfy Digital Network™ (SDN) installation or when part of an animeo® IP system.

The interface communicates through a direct connection to the Building Management System through IP or RS485 serial communication or uses a BACnet translator box to send and receive signals.

Commissioning includes auto discovery for animeo® IP, limit setting, limit adjusting, intermediate positions, motor grouping, and generating system reports.

SYSTEM REQUIREMENTS

Windows 7 PC or higher

Google Chrome 59.0.3071 or higher

Somfy Connect BMS Interface #1870249

Somfy Connect BMS Interface latest firmware version

For the latest firmware version go to: <https://www.somfypro.com/services-support/software>

Refer to the Somfy Connect BMS Data Points Deployment Guide:

<https://www.somfypro.com/products/-/e-cat//1870249>

CONNECTIONS & LED s

LED BEHAVIOR:

SPL

Blue LED will light if the unit is not getting a response from one or more of the configured devices

RUN

Once powered, wait 20 seconds and the green LED will begin flashing to indicate normal operation

ERR

Red LED indicates a system error

RX

Yellow LED will flash when a message is received on the serial port on the 6-pin. If the serial port is not used, this LED is non-operational

TX

Orange LED will flash when a message is sent on the serial port on the 6-pin connector. If the serial port is not used, this LED is non-operational

PWR

Green LED indicates the unit is powered



II. INSTALLATION

MOUNTING & POWER

The Somfy Connect BMS Interface is mounted near the Building Management System, a network switch, or close to the beginning of an SDN network.

If mounting on a DIN rail, extend one of the two DIN mounting ears with a small screwdriver to snap the device onto the DIN rail.

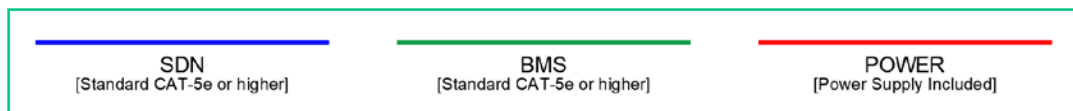
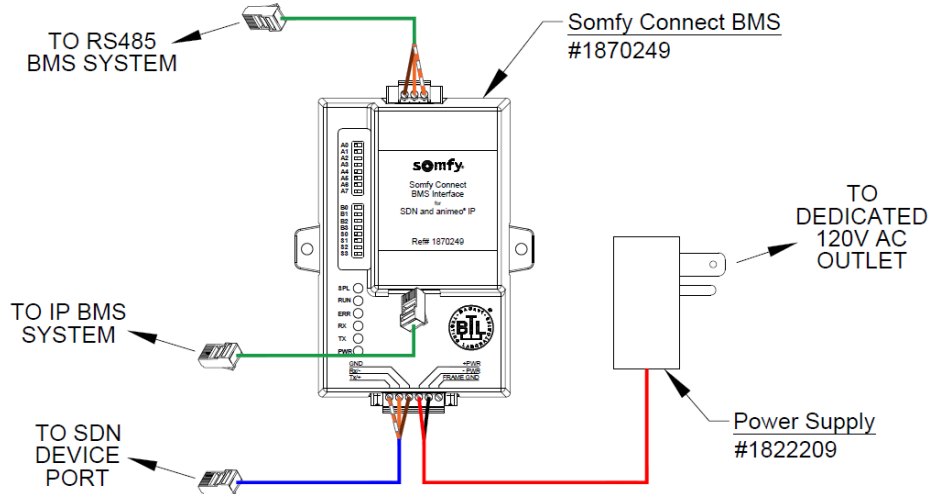
- (1) 24V DC Wall Mount Power Supply #1822209 is included to power the Somfy Connect BMS Interface. The 24V DC Power Supply requires a dedicated 120V AC outlet.

WIRING TO SYSTEM FOR OPERATION

The Somfy Connect BMS Interface integrates with BACnet MS/TP, BACnet IP, Modbus or Modbus IP. RS485 or IP connections are supported, but not both simultaneously.

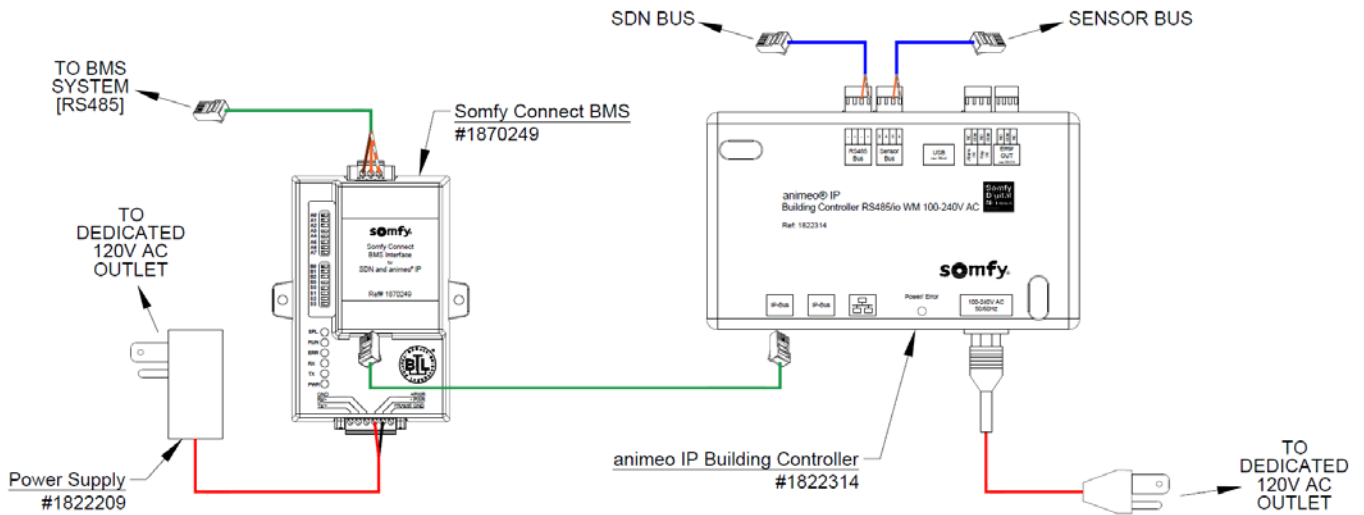
SDN WIRING TO IP OR RS485 BMS SYSTEM

- a. Connect the BMS Interface Host Port to any SDN Device Port
- b. Connect the BMS Interface Field Port to the RS485 BMS System or Ethernet Port to the IP BMS System



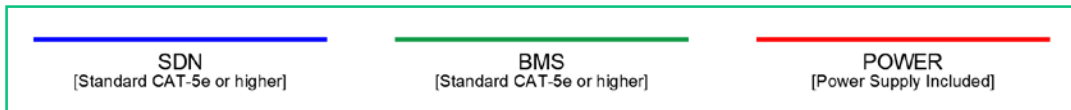
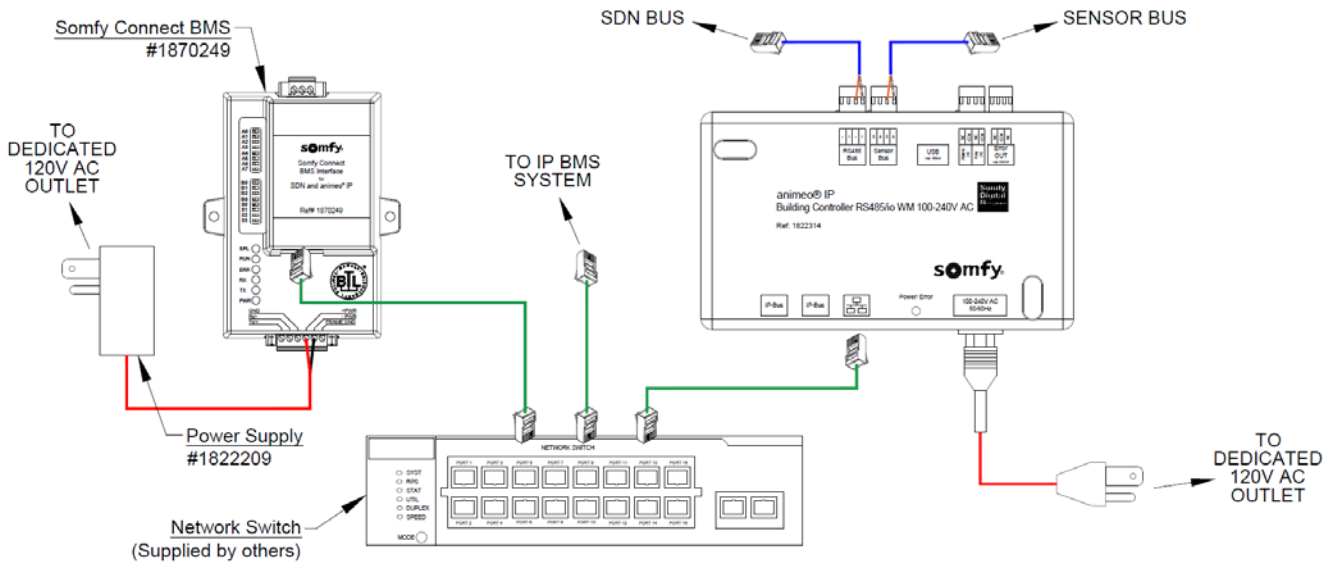
ANIMEO IP WIRING TO RS485 BMS SYSTEM

- Connect the BMS Interface Ethernet Port to the animeo IP Building Controller IP Bus Port
- Connect the BMS Interface Field Port to the RS485 BMS System



ANIMEO IP WIRING TO IP BMS SYSTEM

- Connect the BMS Interface Ethernet Port to the Local Area Network Switch
- Connect the animeo IP Building Controller Network Port to the Local Area Network Switch
- Connect the IP BMS System to the Local Area Network Switch



III. BMS LIMITS & SETTINGS

POINTS PER DEVICE

- The total number of points presented by all devices connected to the Somfy Connect BMS Interface is not to exceed 2,500 data points
- Only (1) BMS Interface can connect to Standalone SDN and multiple BMS Interfaces can connect to animeo IP
- If additional data points are required, then the system must be split into separate SDN systems, each with a separate Somfy Connect BMS Interface
- Refer to the Somfy Connect BMS Data Points Deployment Guide for a complete data point description

Devices	Points Per Device
Motor - SDN	6
Group - SDN	6
Actuator - Animeo	13
Group - Animeo	7
Remote - Animeo	11
Sensor - Animeo	5
Points per Device	

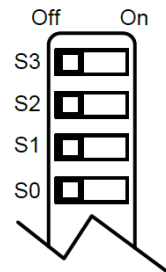
DIP SWITCH SETTINGS

NOTE: Before setting DIP switches, ensure the BMS Interface power is OFF

FIELD PROTOCOL SETTINGS:

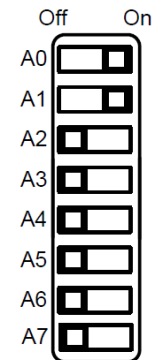
- Set the "S" Bank DIP Switches (S0 – S3) to select the required Field Protocol
- See chart below for the switch settings for specific systems
- OFF is set when all DIP switches are set closest to the outside of the unit

ProtoNode FPC-N34 Profile	S Bank DIP Switches		
	S0	S1	S2
BACnet/IP	Off	Off	Off
BACnet MS/TP	On	Off	Off
Metasys N2	Off	On	Off
Modbus TCP/IP & Modbus RTU	On	On	Off



MAC ADDRESS SETTINGS [MS/TP]:

- Only (1) MAC Address is set for the Somfy Connect BMS Interface regardless of how many devices are connected
- Set the Somfy Connect BMS Interface MAC Address to a value between 1 to 127 (Master MAC Address), so that the BMS front end can find the BMS Interface via BACnet Auto-Discovery
NOTE: Never set the Somfy Connect BMS Interface MAC Address to a value from 128 to 255. Addresses from 128 to 255 are Slave addresses, undiscoverable by BMS front ends supporting Auto-Discovery of BACnet MS/TP devices.
- Set the "A" Bank DIP Switches to assign a MAC Address to the BMS Interface for BACnet MS/TP
- See APPENDIX B of this guide for the complete range of MAC Addresses and DIP switch settings

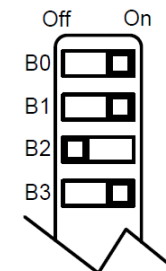


BAUDE RATE SETTINGS [MS/TP]:

- Set the "B" Bank DIP Switches (B0 – B3) to select the Field Baud Rate of the Somfy Connect BMS Interface to match the baud rate required by the Building Management System for BACnet MS/TP
- The Baud Rate for Metasys N2 is set to 9600. DIP switches B0 – B3 are disabled for Metasys N2

Baud	B0	B1	B2	B3
9600	On	On	On	Off
19200	Off	Off	Off	On
38400*	On	On	Off	On
57600	Off	Off	On	On
76800	On	Off	On	On
BMS Baud Rate				

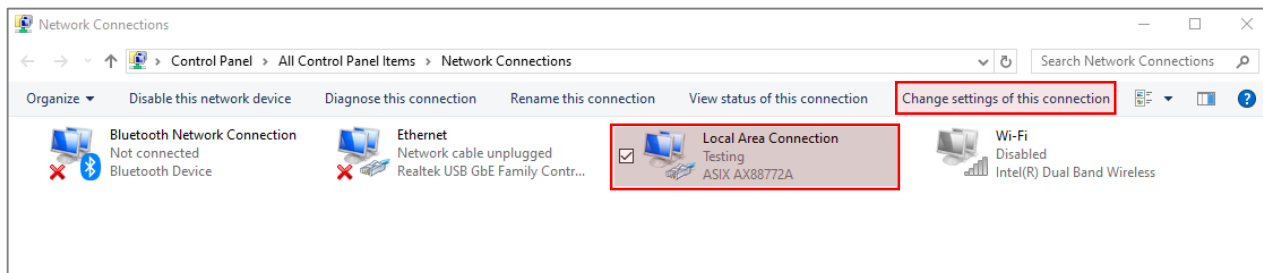
* Factory default setting = 38400



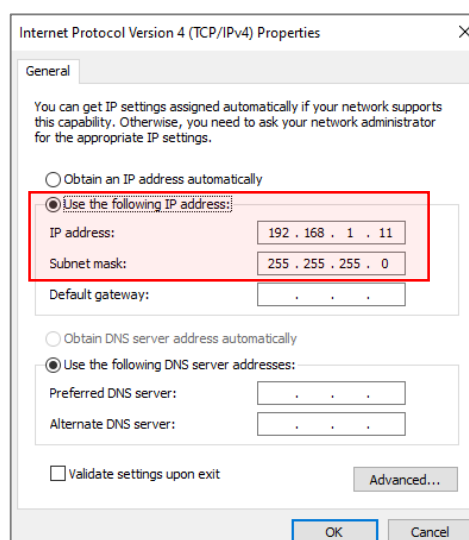
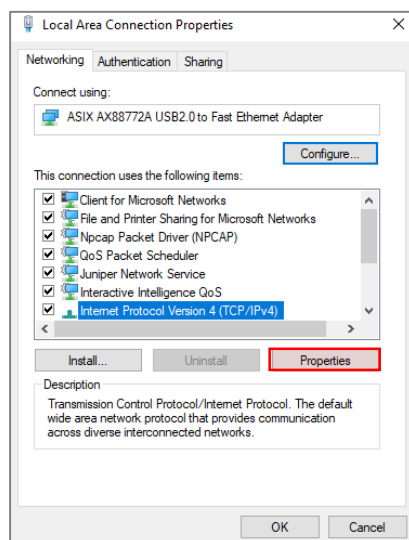
IV. CONNECT PC

1. Apply power to the Somfy Connect BMS Interface and connect the Ethernet Port to a Windows PC
2. The default IP address of the BMS Interface is 192.168.1.24 and Subnet mask is 255.255.255.0
 - If the PC and BMS Interface are on different IP networks, temporarily assign a static IP address to the PC on the 192.168.1.x network.
 - If the default IP Address has been previously changed, this assigned IP Address can be discovered using the Somfy Connect Field Server Toolbox.
(For the latest Somfy Connect Field Server Toolbox software go to: <https://www.somfypro.com/services-support/software>)

3. In Windows PC, navigate to Control Panel > All Control Panel Items > Network Connections:
 - a) Select the **Local Area Connection** connected to the BMS Interface
 - b) Click **"Change settings of this connection"**



4. In the Local Area Connection Properties window Networking tab, select **Internet Protocol Version 4 (TCP/IPv4)** then click "Properties":
 - a) Select **Use the following IP address:** radio button
 - b) Enter **IP address:** 192.168.1.x (x can be from 2 to 255 except for 24)
 - c) Enter **Subnet mask:** 255.255.255.0
 - d) Click **"OK"** on both windows to apply settings

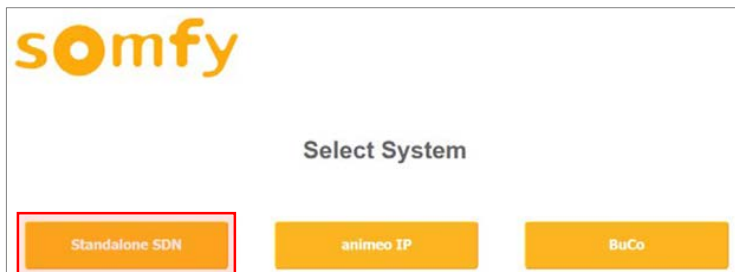


5. Upon completion of the Somfy Connect BMS Interface configuration, repeat Step 4 to revert previous settings:
 - a) Select **Obtain an IP address automatically** radio button
 - b) Click **"OK"** on both windows to apply settings

V. CONFIGURE [STANDALONE SDN]

SDN PARAMETERS

1. Open Google Chrome browser and navigate to <http://192.168.1.24> the Somfy Connect BMS Interface
2. Click "Standalone SDN" on the Select System screen



The Gateway Profile Configuration page (Configuration Parameters) will display

The screenshot shows the 'Configuration Parameters' page with the Somfy logo at the top. Below the logo, the title 'Configuration Parameters' is displayed. The page contains a table of parameters with input fields and 'Submit' buttons.

Parameter Name	Parameter Description	Value
master_address	Somfy Master Address This sets the 3-byte address on the Somfy 485 network of this unit. Hexadecimal format.	<input type="text" value="ffff01"/> <input type="button" value="Submit"/>
network_nr	BACnet Network Number This sets the BACnet network number of the Gateway. (1 - 65535)	<input type="text" value="50"/> <input type="button" value="Submit"/>
node_offset	BACnet Node Offset This is used to set the BACnet device instance. The device instance will be sum of the Modbus device address and the node offset. (0 - 4194303)	<input type="text" value="50000"/> <input type="button" value="Submit"/>
bac_ip_port	BACnet IP Port This sets the BACnet IP port of the Gateway. The default is 47808. (1 - 65535)	<input type="text" value="47808"/> <input type="button" value="Submit"/>
bac_cov_option	BACnet COV This enables or disables COVs for the BACnet connection. Use COV_Enable to enable. Use COV_Disable to disable. (COV_Enable/COV_Disable)	<input type="text" value="COV_Disable"/> <input type="button" value="Submit"/>
bac_bbmd_option	BACnet BBMD This enables BBMD on the BACnet IP connection. Use BBMD to enable. Use - to disable. The bdt.ini files also needs to be downloaded. (BBMD/-)	<input type="text" value="BBMD"/> <input type="button" value="Submit"/>
bac_virt_nodes	BACnet Virtual Server Nodes Set to NO if the unit is only converting 1 device to BACnet. Set to YES if the unit is converting multiple devices. (No/Yes)	<input type="text" value="YES"/> <input type="button" value="Submit"/>

Active profiles

Nr	Node ID	Current profile	Parameters
<input type="button" value="Add"/>			

At the bottom of the page, there are several buttons:

3. ENTER NETWORK SETTINGS –

NOTE: Coordinate with the Network Administrator for appropriate network settings & requirements. A Static IP Address is recommended.

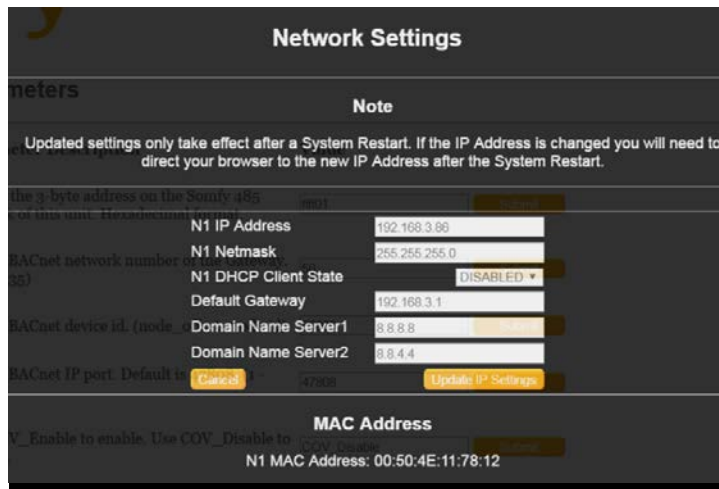
- a) Click “Network Settings” at the bottom of the page



- b) Input the information required:

- Modify the Somfy Connect BMS Interface Network Settings from default
- OR
- Enable DHCP Client State, if required

- c) Click “Update IP Settings” then “System Restart” to apply Network Settings



4. VERIFY FIRMWARE –

NOTE: Go to <https://www.somfypro.com/services-support/software> to identify the current Somfy Connect BMS Interface firmware. See APPENDIX A of this guide for information on how to update firmware

- a) Click “Diagnostics & Debugging” at the bottom of the page, the Somfy Client page will display



- b) In the Status tab, verify if the firmware Build_Revision, Build_Date, and BIOS _Version are current

Navigation		Somfy Client																	
<ul style="list-style-type: none"> Somfy Client <ul style="list-style-type: none"> About Setup View User Messages Diagnostics 		<div style="display: flex; border-bottom: 1px solid gray;"> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px;">Status</div> <div style="padding: 2px 5px; margin-right: 5px;">Settings</div> <div style="padding: 2px 5px;">Info Stats</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="width: 60%;">Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Driver_configuration</td> <td>DCC000</td> </tr> <tr> <td>DCC_Version</td> <td>V6.05p (A)</td> </tr> <tr> <td>Kernel_Version</td> <td>V6.51c (D)</td> </tr> <tr> <td>Release_Status</td> <td>Normal</td> </tr> <tr style="border: 2px solid red;"> <td>Build_Revision</td> <td>4.43.15</td> </tr> <tr style="border: 2px solid red;"> <td>Build_Date</td> <td>2020-03-27 15:29:42 +0200</td> </tr> <tr style="border: 2px solid red;"> <td>BIOS_Version</td> <td>4.1.2</td> </tr> </tbody> </table>		Name	Value	Driver_configuration	DCC000	DCC_Version	V6.05p (A)	Kernel_Version	V6.51c (D)	Release_Status	Normal	Build_Revision	4.43.15	Build_Date	2020-03-27 15:29:42 +0200	BIOS_Version	4.1.2
Name	Value																		
Driver_configuration	DCC000																		
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Release_Status	Normal																		
Build_Revision	4.43.15																		
Build_Date	2020-03-27 15:29:42 +0200																		
BIOS_Version	4.1.2																		

5. ENTER CONFIGURATION PARAMETERS —

NOTE: Coordinate with the Building Management System Manager for appropriate protocol settings & requirements

- a) Click "Home" to return to the Configuration Parameters



- b) Input the Configuration Parameters required
- c) For each Parameter enter the required Value, then click "Submit"

Parameter Name	Parameter Description	Value
master_address	Somfy Master Address This sets the 3-byte address on the Somfy 485 network of this unit. Hexadecimal format.	<input type="text" value="ffff01"/> <input type="button" value="Submit"/>
network_nr	BACnet Network Number This sets the BACnet network number of the Gateway. (1 - 65535)	<input type="text" value="50"/> <input type="button" value="Submit"/>
node_offset	BACnet Node Offset This is used to set the BACnet device instance. The device instance will be sum of the Modbus device address and the node offset. (0 - 4194303)	<input type="text" value="50000"/> <input type="button" value="Submit"/>
bac_ip_port	BACnet IP Port This sets the BACnet IP port of the Gateway. The default is 47808. (1 - 65535)	<input type="text" value="47808"/> <input type="button" value="Submit"/>
bac_cov_option	BACnet COV This enables or disables COVs for the BACnet connection. Use COV_Enable to enable. Use COV_Disable to disable. (COV_Enable/COV_Disable)	<input type="text" value="COV_Disable"/> <input type="button" value="Submit"/>
bac_bbmd_option	BACnet BBMD This enables BBMD on the BACnet IP connection. Use BBMD to enable. Use - to disable. The bdt.ini files also needs to be downloaded. (BBMD/-)	<input type="text" value="BBMD"/> <input type="button" value="Submit"/>
bac_virt_nodes	BACnet Virtual Server Nodes Set to NO if the unit is only converting 1 device to BACnet. Set to YES if the unit is converting multiple devices. (No/Yes)	<input type="text" value="YES"/> <input type="button" value="Submit"/>

- d) Click "System Restart" to apply Configuration Parameters



SDN CONFIGURATION

- Return to the Gateway Profile Configuration page. In the Active Profiles section click **"Add"**

Active profiles

Nr	Node ID	Current profile	Parameters
<input type="button" value="Add"/>			

- NODE ID – Specify a number for the device:
 - It is recommended to start with the number 1 and increase by 1 for each additional device
 - The Node ID number will be added to the BACnet Node Offset number set in the Configuration Parameters and assigned to the 3rd Party BMS
IE: If the BACnet Node Offset is 50000, then the first assigned Node ID is 50001

Nr	Node ID	Current profile	Parameters
	1	Group ▾	group_id: <input style="width: 100%;" type="text"/> <input type="button" value="Submit"/> <input type="button" value="Cancel"/>

- CURRENT PROFILE - Select from the dropdown:
 - Select **"Group"** if connecting to an SDN Group Address
The Group ID is a 6-digit hexadecimal address programmed in each motor to assign multiple motors to a group
 - Select **"Motor"** if connecting to an individual SDN Motor ID
The Motor ID is a 6-digit hexadecimal unique node ID from each SDN motor

Nr	Node ID	Current profile	Parameters
	1	Group ▾ Group Motor	group_id: <input style="width: 100%;" type="text"/> <input type="button" value="Submit"/> <input type="button" value="Cancel"/>

- PARAMETERS - Enter the Group ID or Motor ID:
 NOTE: After each new profile is added, a message will appear "Configuration update complete. Please restart the system to load the new configuration". It is not necessary to restart the system after each profile is added.

- After each profile is added, click **"Submit"**
- To delete an existing profile, click **"Remove"**
- To delete all existing profiles, click **"Clear Profiles and Restart"**

Nr	Node ID	Current profile	Parameters
1	1	Group	group_id : AAAAAA <input type="button" value="Remove"/>
2	2	Group	group_id : BBBBBB <input type="button" value="Remove"/>
3	3	Motor	motor_id : 067071 <input type="button" value="Remove"/>
4	4	Motor	motor_id : 068A80 <input type="button" value="Remove"/>
	5	Motor ▾	motor_id: <input style="width: 100%; border: 2px solid red;" type="text"/> <input type="button" value="Submit"/> <input type="button" value="Cancel"/>

- After entering all profiles, click **"System Restart"**

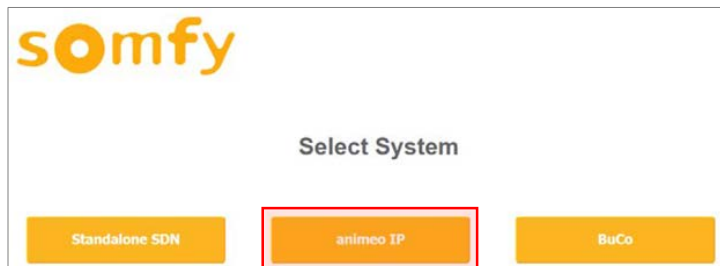
HELP (?)
Network Settings
Clear Profiles and Restart
System Restart
Diagnostics & Debugging

The SDN Configuration is now complete

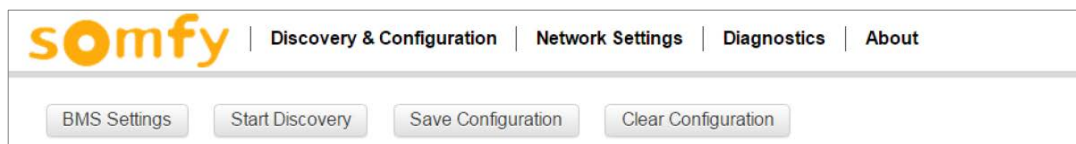
VI. CONFIGURE [ANIMEO IP]

ANIMEO IP SYSTEM SETTINGS

1. Open Google Chrome browser and navigate to <http://192.168.1.24> the Somfy Connect™ BMS Interface
2. Click "animeo IP" on the Select System screen



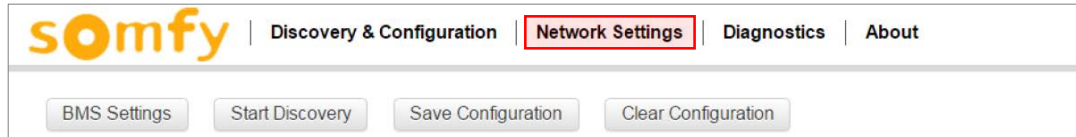
The Somfy Animeo Configurator page will display



3. ENTER NETWORK SETTINGS -

NOTE: Coordinate with the Network Administrator for appropriate network settings & requirements. A Static IP Address is recommended.

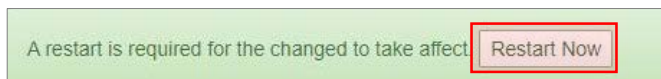
- a) Click "Network Settings"



- b) Input the information required, then click "Update Settings"
 - Modify the Somfy Connect™ BMS Interface Network Settings from default
 - OR
 - Enable DHCP Client State, if required

N1 IP Address	192.168.3.86
N1 Netmask	255.255.255.0
N1 DHCP Client State	DISABLED
Default Gateway	192.168.3.1
Domain Name Server1	8.8.8.8
Domain Name Server2	8.8.4.4
Update Settings	Reset

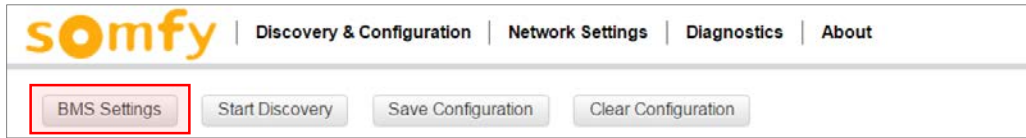
- c) Click "Restart Now" to apply Network Settings



4. ENTER BMS PROTOCOL SETTINGS -

NOTE: Coordinate with the Building Management System Manager for appropriate protocol settings & requirements

- a) Click "BMS Settings"



- b) Select the BMS Protocol and input the information required

- c) Click "Save" and then restart the Somfy Connect™ BMS Interface to apply the changes

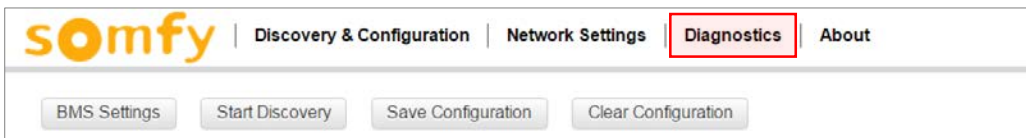
The screenshot shows the 'BMS Protocol Settings' form with 'BACnet IP' selected in the dropdown menu. The form includes fields for 'Device Instance' (50000), 'Name' (Somfy Animeo Gateway), 'Location' (-), 'Device Instance Offset' (50001), 'Network Number' (5), and 'IP Port' (47808). A red box highlights the 'Save' button at the bottom right.

The screenshot shows the 'BMS Protocol Settings' form with 'BACnet MS/TP' selected in the dropdown menu. The form includes fields for 'Device Instance' (50000), 'Name' (Somfy Animeo Gateway), 'Location' (-), 'Device Instance Offset' (50000), 'Network Number' (5), 'Max Masters' (127), 'Max Info Frames' (1), 'MAC address' (1), 'Connection' (R1), 'Baud Rate' (9600), 'Parity' (None), 'Data Bits' (8), and 'Stop Bits' (1). A red box highlights the 'Save' button at the bottom right.

5. VERIFY FIRMWARE -

NOTE: Go to <https://www.somfypro.com/services-support/software> to identify the current Somfy Connect™ BMS Interface firmware. See APPENDIX A of this guide for information on how to update firmware

- a) Click "Diagnostics" to open the Somfy Client page



- b) In the Status tab, verify if the firmware Build_Revision, Build_Date, and BIOS_Version are current

The screenshot shows the 'Somfy Client' interface with a navigation tree on the left and a 'Status' tab selected. The 'Status' tab contains a table with the following data:

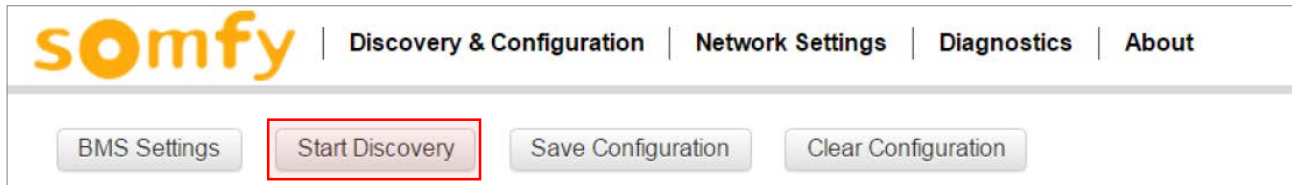
Name	Value
Driver_configuration	DCC000
DCC_Version	V6.05p (A)
kernel_version	V6.51c (D)
Release_status	Normal
Build_Revision	4.43.15
Build_Date	2020-03-27 15:29:42 +0200
BIOS_Version	4.1.2

A red box highlights the 'Status' tab and the last three rows of the table.

ANIMEO IP CONFIGURATION

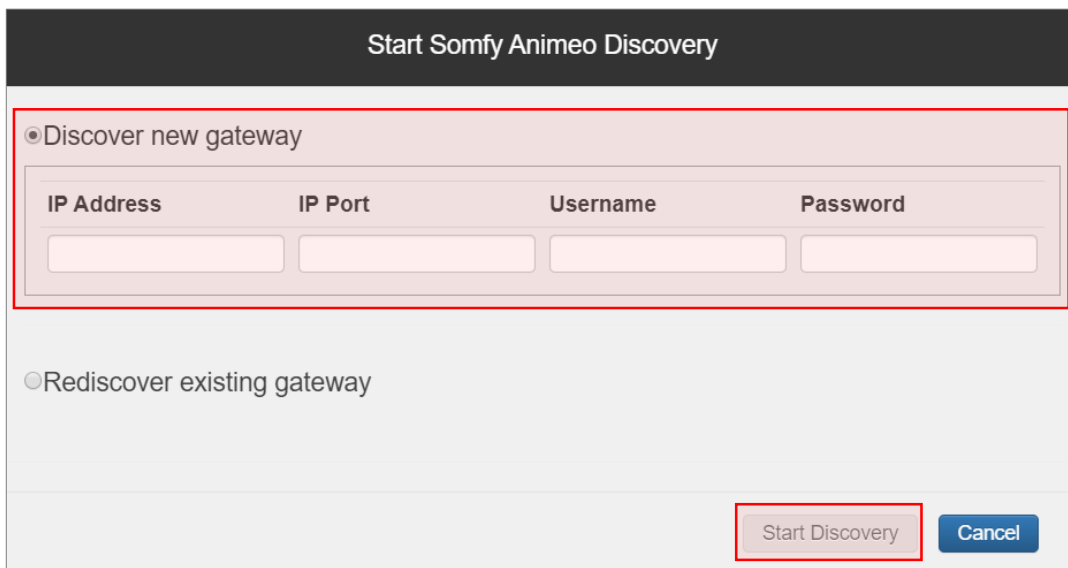
NOTE: At least one animeo IP Virtual Keypad is required for the Somfy Connect BMS Interface to authenticate to the animeo IP Building Controller

1. Click "Start Discovery"

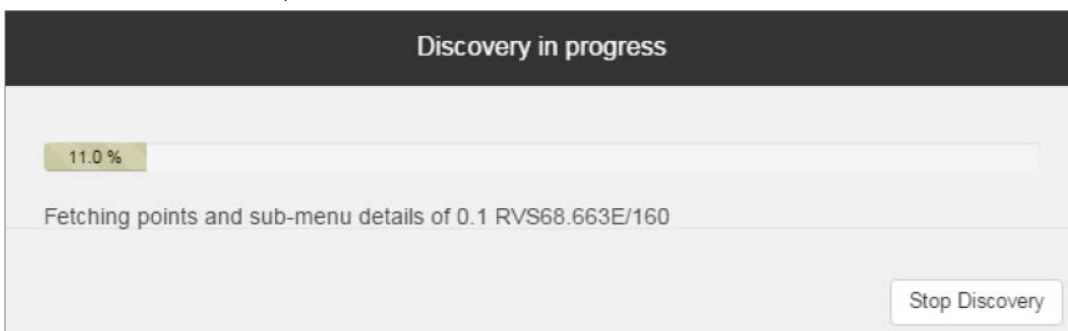


2. START SOMFY ANIMEO DISCOVERY –

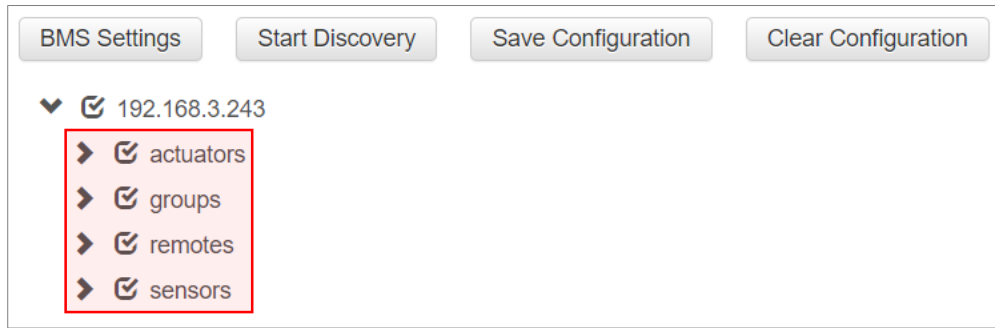
- a) Input the following information to Discover new gateway:
 - IP Address of the animeo® IP Building Controller
 - IP Port 80
 - Username of the Virtual Keypad configured in animeo® IP
 - Password of the Virtual Keypad configured in animeo® IP
- b) Click "Start Discovery"



- c) DISCOVERY IN PROGRESS – Animeo Discovery may take a few minutes depending on the number of device data points it contains



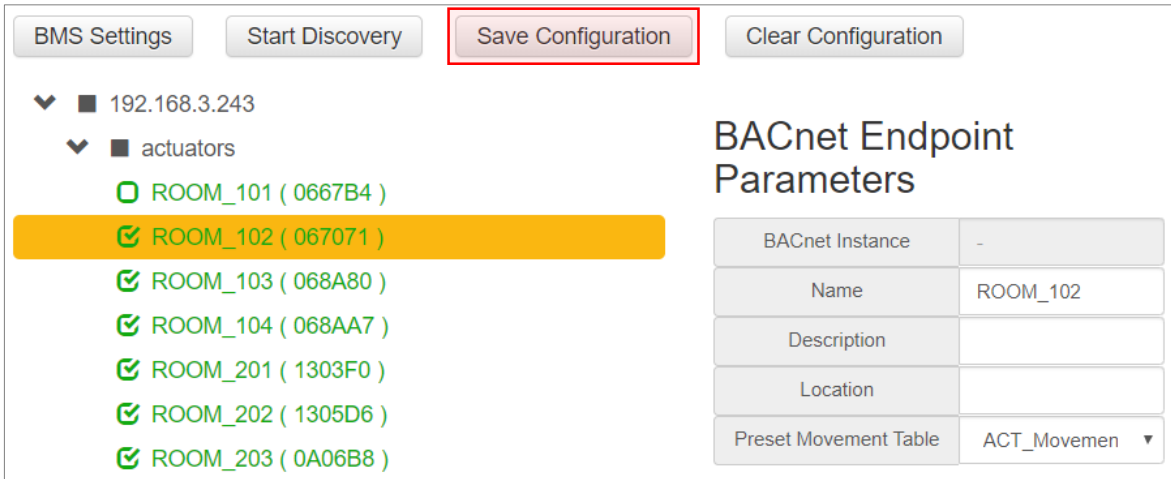
3. ADD DEVICES – After the discovery process is complete, click the right facing arrows next to each object in the device tree to view the points or parameters underneath



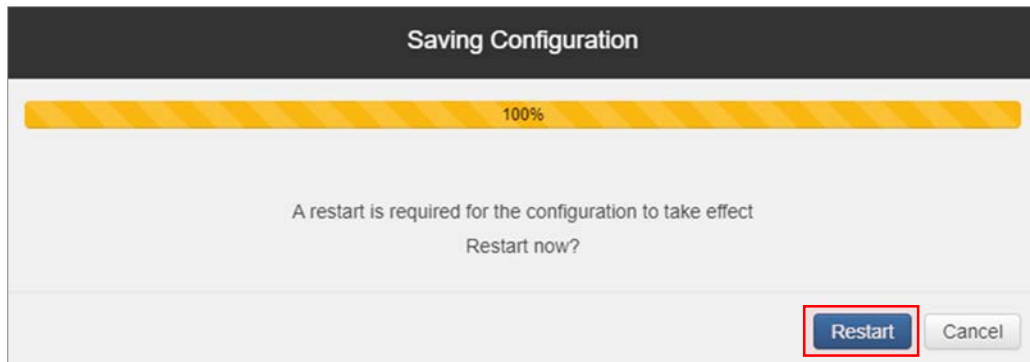
- a) Select the device points necessary to be monitored or controlled by the Building Management System by clicking on a point, marking a check next to each and deselect the unnecessary points

NOTE: Most Building Management Systems control large groups rather than individual motors. Groups can not be polled for feedback. It may be necessary to select (1) motor from each group to provide motor feedback of status and position.

- b) Once all device points have been selected, click "Save Configuration"



- c) SAVING CONFIGURATION – This process may take several minutes. When complete, click "Restart"



4. CONFIRM CONFIGURATION – After system restart, the device points change from green to black confirming the saved configuration. Protocol specific reference fields (such as BACnet Instance or Modbus Node ID) will populate for all configured device points in the Endpoint Parameters.

The screenshot shows the BMS Settings interface. At the top, there are four buttons: "BMS Settings", "Start Discovery", "Save Configuration", and "Clear Configuration". Below these, a tree view shows the IP address 192.168.3.243 expanded to show "actuators". Under "actuators", several room configurations are listed, with "ROOM_102 (067071)" highlighted in yellow. To the right, the "BACnet Endpoint Parameters" table is displayed:

BACnet Instance	50002
Name	ROOM_102
Description	
Location	
Preset Movement Table	ACT_Movemen ▼

The animeo IP Configuration is now complete

1. CLEAR CONFIGURATION –

NOTE: Clearing a configuration does not remove the Network Settings

- a) From the animeo IP Discovery & Configuration page, click **“Clear Configuration”**
- b) The Clear Configuration window will show an option to **“Also clear all discovered devices”** selected by default - Uncheck this option if necessary, or all discovered devices will be removed

The screenshot shows the top navigation bar of the Somfy interface with the following menu items: "Discovery & Configuration", "Network Settings", "Diagnostics", and "About". Below the navigation bar, there are four buttons: "BMS Settings", "Start Discovery", "Save Configuration", and "Clear Configuration". The "Clear Configuration" button is highlighted with a red rectangular box.

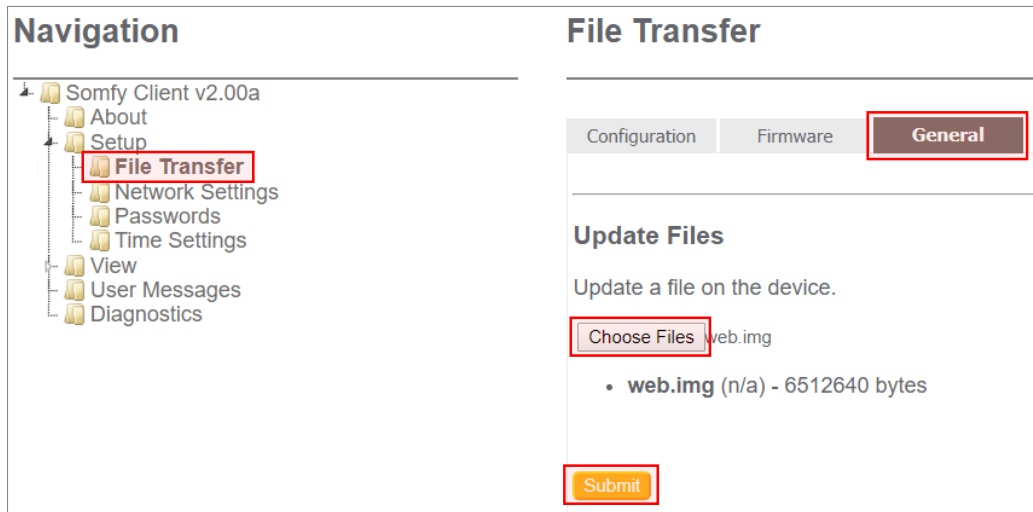
- c) Click **“Clear & Restart”** – The system will restart and return to the Select System screen

The screenshot shows a dialog box titled "Clear Configuration". The text inside reads: "This will clear all saved device settings and perform a restart. Are you sure you want to continue?". Below this text, there is a checkbox labeled "Also clear all discovered devices" which is checked. At the bottom right of the dialog, there are two buttons: "Clear & Restart" (highlighted with a red box) and "Cancel".

APPENDIX

[APPENDIX A] UPDATE FIRMWARE

1. Go to <https://www.somfypro.com/services-support/software> to download the latest Somfy Connect™ BMS Interface firmware, then save and extract the **web.img** file to a known folder location
2. Go to the Somfy Client page
3. In the Navigation tree, go to **Setup, File Transfer, General** tab, then click **“Choose Files”**
4. Browse to select the **web.img** file extracted in Step 1, then click **“Submit”**



NOTE: “File transfer” status will display a warning “Do not navigate away from this page during transfer”

5. “Firmware update complete” will display and prompt “Please restart the system to load the new Firmware” Click **“System Restart”** at the bottom of the page



6. After the system restarts, return to the Somfy Client page
7. In the Status tab, verify the Build_Revision, Build_Date, and BIOS _Version are current, confirming firmware update was successful



[APPENDIX B] "A" BANK DIP SWITCH SETTINGS

*The charts below refer to the "A" Bank DIP Switch settings the MAC Address for the Somfy Connect™ BMS

Address	A0	A1	A2	A3	A4	A5	A6	A7
1	On	Off	Off	Off	Off	Off	Off	Off
2	Off	On	Off	Off	Off	Off	Off	Off
3	On	On	Off	Off	Off	Off	Off	Off
4	Off	Off	On	Off	Off	Off	Off	Off
5	On	Off	On	Off	Off	Off	Off	Off
6	Off	On	On	Off	Off	Off	Off	Off
7	On	On	On	Off	Off	Off	Off	Off
8	Off	Off	Off	On	Off	Off	Off	Off
9	On	Off	Off	On	Off	Off	Off	Off
10	Off	On	Off	On	Off	Off	Off	Off
11	On	On	Off	On	Off	Off	Off	Off
12	Off	Off	On	On	Off	Off	Off	Off
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44	Off	Off	On	On	Off	On	Off	Off
45	On	Off	On	On	Off	On	Off	Off
46	Off	On	On	On	Off	On	Off	Off
47	On	On	On	On	Off	On	Off	Off
48	Off	Off	Off	Off	On	On	Off	Off

Address	A0	A1	A2	A3	A4	A5	A6	A7
49	On	Off	Off	Off	On	On	Off	Off
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51	On	On	Off	Off	On	On	Off	Off
52	Off	Off	On	Off	On	On	Off	Off
53	On	Off	On	Off	On	On	Off	Off
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Address	A0	A1	A2	A3	A4	A5	A6	A7
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253	On	Off	On	On	On	On	On	On
254	Off	On	On	On	On	On	On	On
255	On	On	On	On	On	On	On	On

SOMFY® is the leading global manufacturer of strong, quiet motors with electronic and app controls for interior window coverings and exterior solar protections. Over 270 million users worldwide enjoy the more than 170 million motors produced by Somfy. During the past 50 years, Somfy engineers have designed products for both the commercial and residential markets to motorize window coverings such as interior shades, wood blinds, draperies, awnings, rolling shutters, exterior solar screens and projection screens. Somfy motorization systems are easily integrated with security, HVAC and lighting systems providing total home or building automation.

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