Intelligent
controls
for buildings | Product guide 2021

somfy

Product Guide 2021

Solutions for buildings

Somfy solutions for greater comfort and energy savings

Somfy solutions offer the capability to manage all types of buildings thanks to innovative products (motors, façade management systems and local controls).

Find a Somfy solution for any project – compatible with all sunshading and opening devices.
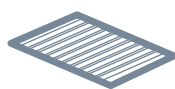
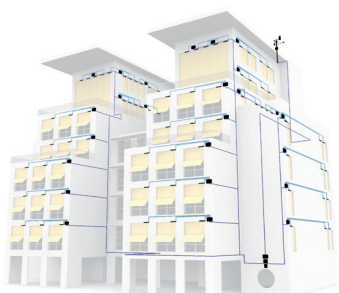| External Venetian blinds	Roller shutters	External vertical screens	Projection screens	Horizontal blinds	Interior venetian blinds	Window openers	Interior vertical screens

Somfy solutions include

1. animeo intelligent building controls

Façade management systems enable the control of all or part of solar shadings and windows via a PC or a dedicated control system. Motors and automation communicate with each other via a proprietary Somfy bus (Solo, IB+, IP) or market standards (KNX or LON).

animeo Motor Controller

BACnet™*
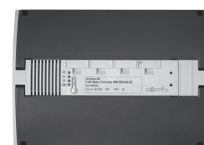
animeo TouchBuco
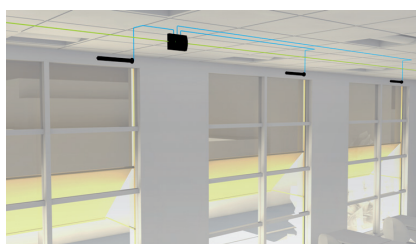
2. Motors

Whatever the end product (indoor or outdoor shading devices, roller shutters, projection screens, etc.), Somfy's motorization will always meet its exact specification.

Somfy tubular motor

Motor for exterior Venetian blinds

Somfy tubular motor

3. Local commands

Depending on the number of blinds and the layout of the room, there will always be a specific Somfy unit available with the required number of channels.
The various technologies (radio, wired, digital, etc.) offer a number of benefits that are tailored to each type of building (hospital, school, office, etc.).

Web Remote Control

Situo 5 io

Smoove IB

* BACnet™ is a trademark of ASHRAE

Solutions for buildings

General system architecture

Somfy products installed in a typical building equipped with exterior blinds.

Motor Controller range
for any type of motors (high/ low voltage), compatible with the Somfy proprietary bus (Solo, IB+) or open protocols (BACnet, KNX).

Motors

Weather station sends weather data information to the Building Controllers.

The bus line can be Somfy proprietary (Solo, IB+) or open (BACnet, KNX) and allows simple or bi-directional communication between the various products connected to the bus line.

Building Controllers compatible with Somfy proprietary bus (IB+) or open protocols (KNX, BACnet) to control small to large buildings.
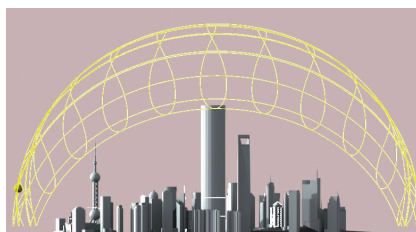
Local commands

Programming and configuration interfaces

Solutions for buildings

animeo: why and what for?

The sun's path

With animeo, solar protections constantly adapt to the exterior environment and occupants' needs inside the building.

Because throughout the day the azimuth and elevation of the sun as well as the occupants' activities are constantly changing, the animeo range of intelligent controls enables the movement of blinds to be controlled accordingly.

The main elements to be taken into account are:

1. The geolocation of the building
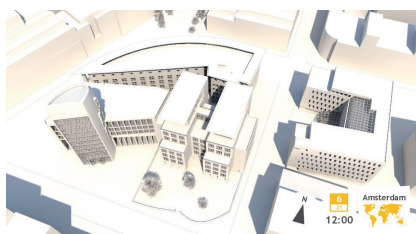
Sun and shadow impacting a city at different times of the day
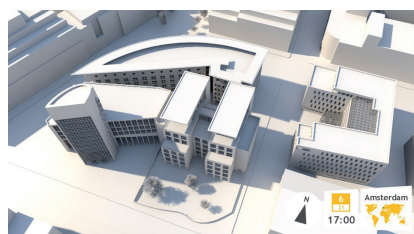
Each building is unique, both in terms of its size, geographical location, environment or architecture. The sun's path, the shadow generated by surrounding buildings or the building shape itself have an impact on its energy needs. Taking these into consideration is essential in the choice of solar protection and control strategy.

2. User needs
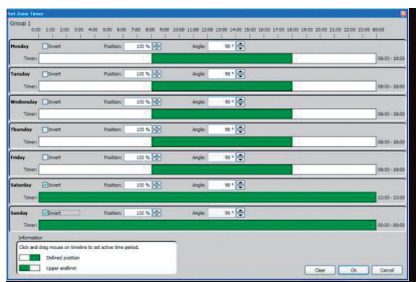
Zone Timer in animeo IB+ and KNX software

Each building is designed for a specific purpose (office, school, hospital, etc.) with different occupancy periods: a school will be closed for certain weeks, a hospital will always be occupied or blind management in an office which is not occupied during the week-end.
It is therefore essential to enhance the building's energy performance and meet occupants' needs.

3. The definition of zones

A zone can be a:

Façade	Floor	Window

Within the same zone, all blinds behave the same way. Smaller zones enable more efficient and precise operation.

Solutions for buildings

animeo: a range of Somfy controls for buildings

animeo is a range of intelligent controls to manage blinds and shutters within buildings, designed to adapt to any façade configuration. By optimizing the management of sun, shade and air in buildings, animeo solutions actively enhance occupants' well-being while improving the building's energy performance.

animeo: compatible with all sun shadings and opening devices

animeo range overview
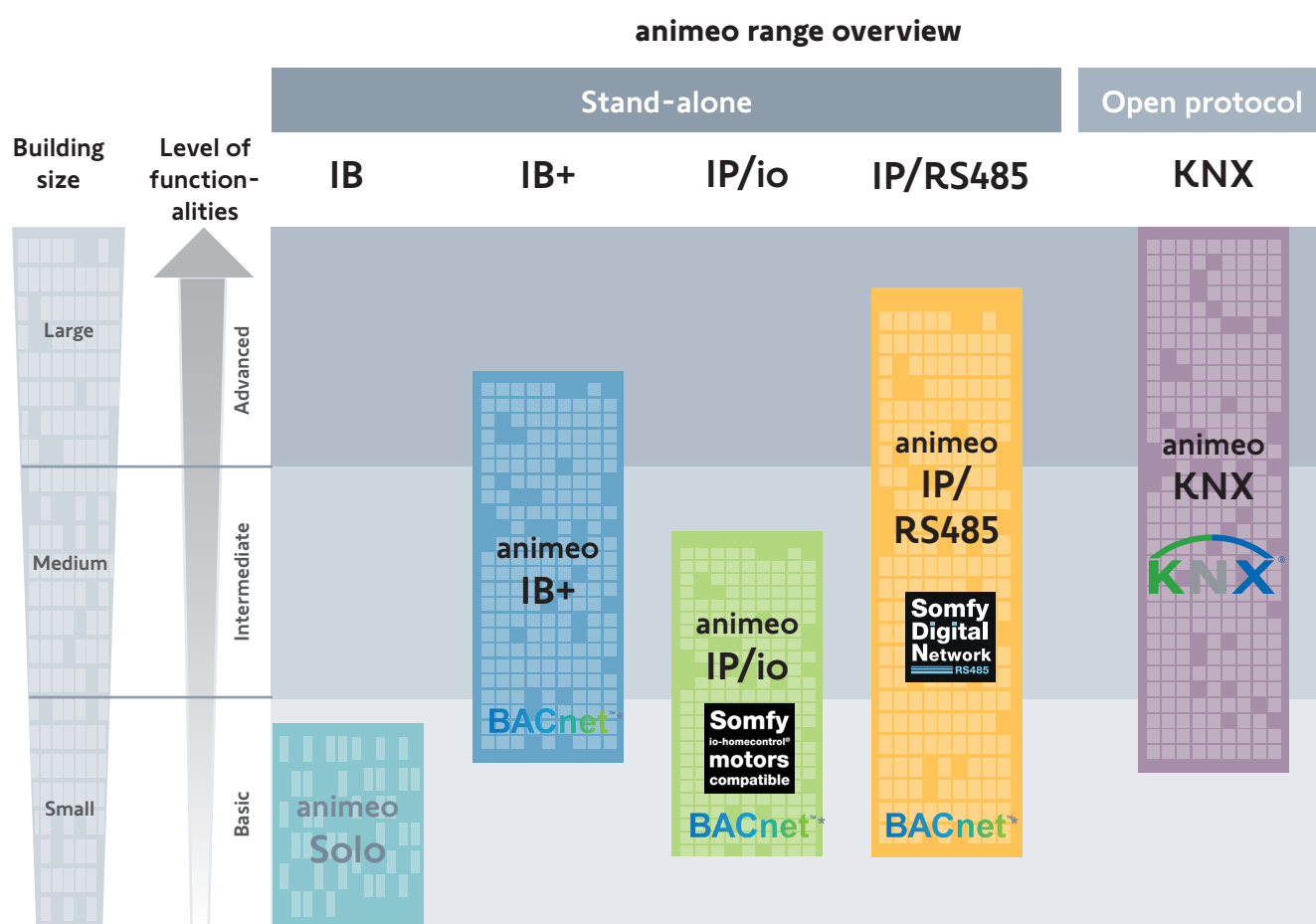
Building size	Level of functionalities	IB	IB+	IP/io	IP/RS485	KNX
Number of motors		1 - 800	1 - 6400	0 - 200	0 - 2000	> 6400
Number of zones		1 - 2	1 - 16	no limit	no limit	> 16

* BACnet™ is a trademark of ASHRAE

Solutions for buildings

Functions offered by the animeo range

Depending on the chosen animeo solution, many functions and algorithms are available to enhance visual comfort and energy savings.
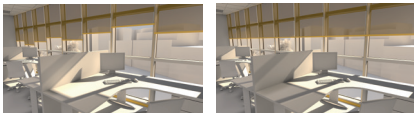
Functions for visual comfort and savings with artificial lighting		How does it work?	animeo solution compatibility
My sun position	The blinds are automatically down in direct glare, and up if there is no sun. The function applies at a building, façade, zone or floor level.	By programmable weekly timers or commands from sun sensors.	**Solo IB+ IP KNX**
Sun tracking	To maximise the amount of light in the room, still avoiding direct glare (group of windows). Occupants' visual comfort is increased, since they can enjoy a view through as much of the window as possible.	Algorithm embedded in Somfy animeo softwares: function enabled, depending on the building precise geolocalisation.	**IB+ IP KNX**
Shadow tracking	My sun position or sun tracking functions managed at a window or group level. This function adjusts the movement of the sun protection according to the shadow projected on the window. The need for artificial lighting is reduced.	The shadow function is based on a precise building model including surrounding buildings that could project shadow onto the façades.	**KNX**
At night	All blinds down to avoid discomfort linked to exterior lighting (direct spotlights lighting up the façades of some office buildings).	By programmable timer.	**Solo IB+ IP KNX**

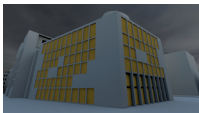| Functions for increased building energy performance		How does it work?	animeo solution compatibility
Block heat	To keep the heat outside, blinds are automatically down when the sun is detected. The function applies at building, façade, zone or floor level.		
Solar heating	Blinds are automatically up when the weather is sunny and when the inside temperature is lower than the outside temperature. Natural energy is used to heat the building.	Commands from sun sensors linked to indoor and outdoor temperature sensors.	**Solo IB+ IP KNX**
Maintain heat	Blinds are automatically down to avoid heat loss and reduce heating costs.		

Solutions for buildings

Maintenance functions: **Protection of solar shading or people** (building safety)			How does it work?	animeo solution compatibility
Zone control and lock		All blinds are up and occupants' local commands are disabled to ensure the cleaners' safety. The function applies at a zone or building level.	Central command, sent from the Building Controller or key switch.	**Solo IB+ IP KNX**
Links to fire alarm		All blinds go up in the event of fire (building level).	Central command sent from Building Controller.	
Exterior shades protection		Wind, frost, ice or rain are detected at building or zone level. All blinds are up and occupants local commands are disabled to ensure blinds are protected.	Wind sensors, ice/rain/frost sensor detection: the message is sent by the Building Controller	
Blind synergy		When interior blinds, exterior blinds or window openers work together, the level of priorities can be programmed.	With the Building Controller.	**IB+**

Maintenance functions: **Advanced functions/links to BMS**		How does it work?	animeo solution compatibility
Status of motor position	Motor feedback during movement and/or with reaching the up/down end-limits or the intermediate position.	Displayed on computer, using specific software (BMS).	**IP KNX**
Remote access	Remote access to blinds for facility managers.	Via the OPC server.	**IB+ KNX**

Functions to enhance the façade's appearance or indoor space			How does it work?	animeo solution compatibility
Blind alignment		The blinds align to the exact position in order to provide perfect room/façade aesthetics.	With RS485, io or Encoder motors and specific controls: displayed on computer using specific software (BMS).	**IB+ IP KNX**
Communication on façades		Showing messages, words on the façade.	Via the OPC server.	**KNX**

Functions to enhance user comfort		How does it work?	animeo solution compatibility
Manual override	Occupants can always control their own blinds using a wall switch, a remote control or a web remote in order to avoid feeling a loss of control due to the automated system.	With a RTS card plugged into the Motor Controller by local switch or web remote.	**IB+ IP KNX**

Solutions for buildings

animeo solutions are compatible with a large range of motors. The choice of controllers depends on the motor type.

animeo ®
COMPATIBLE

• AC motors with typical applications

Asynchronous motor (AC)

The cost-effective standard solution. Especially used outside and for applications requiring higher torque.

Asynchronous motor with integrated increment encoder (AC-E)

The increment encoder in the motor measures the exact position and sends a message to the controller. Used in all situations where precise positioning is required.

Asynchronous motor with integrated radio receiver (AC radio)

Control of the motor is via a radio transmitter. There is no wiring between the motor and the point of operation. Motors can be connected in parallel. Mainly used in the residential and small purpose-buildings area.

Electrical connection	L-up, L-down, N, PE
Torque of shading system	4-120 Nm
Energy by window motors	150-400 N
Diameter (not for window motors)	40-60 mm
Voltage	230 V AC
Current consumption	0.5-3.15 A
Installation comments	–
Applications	For roller shutters, screens, Venetian blinds, awnings, large slats, windows and Fabric Tension Systems (FTS).

WIRED TECHNOLOGY

Electrical connection	L, N, PE + extra cable with RS485
Torque	5-35 Nm
Diameter	50 mm
Voltage	230 V AC
Current consumption	0.75-1.2 A
Installation comments	Specific control!
Applications	For roller shutters and screens in situations where exact positioning and consistent high precision is required. Applicable for blinds greater than three meters in height.

Somfy Digital Network RS485

Electrical connection	L, N, PE
Torque	6-120 Nm
Diameter	50-60 mm
Voltage	230 V AC
Current consumption	0.5- 3.15 A
Installation comments	Max. recommended radio distance: 20 m with up to 2 cement walls.
Applications	For roller shutters, screens and awnings.

Somfy io-homecontrol® motors compatible

Solutions for buildings

animeo®
COMPATIBLE

• DC motor with typical applications

Direct currenct motor (DC)

For interior Venetian blinds: motors with smaller dimensions and lower torque.
For windows: motors operated with safety low voltage.
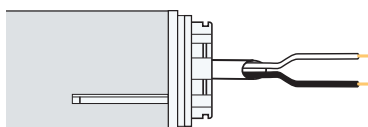
Electrical connection	+, –
Torque of shading system	0.5−1.2 Nm
Energy with window motor	150−400 N
Diameter (not for window motors)	25−35 mm
Voltage	24 V DC
Current consump‐tion; shading systems	0.3−1 A
Current consump‐tion; window motors	0.3−2.5 A
Installation com‐ments	Maximum recommended distance between motor and controller: 20 m (voltage loss).
Applications	For interior shading or for window mo‐tors.

Solutions for buildings

Somfy solutions are compatible with most technologies on the market

Depending on the installation, various Somfy user interfaces are available:

Wired technologies

WT

Wired Technology (Somfy standard proprietary wired control). An ideal solution for new buildings.

KNX

World standard for home and building control which is suitable for use in any application domain.

BACnet

Networking protocol specifically created to address various functions within buildings (blind management, lighting, HVAC ...).

Wireless technologies

Radio Technology Somfy®

With over 3 million installations throughout the world, RTS has become the standard for secure radio technology in the building industry. Installations can be upgraded as new controls are added.

io homecontrol

Highly secure wireless technology included in a wide range of home and building equipment, making it fully compatible, reliable and secure.

Digital technologies

Somfy Digital Network

Wired protocol used by Somfy with its own digital protocol, also called "RS485". Digital controls provide the convenience of a multi-application and scalable system.

* BACnet™ is a trademark of ASHRAE

Solutions for buildings

Typical animeo IB+, KNX and BACnet installation

AC Motor Controller and Smoove IB for local instruction

WIRED TECHNOLOGY
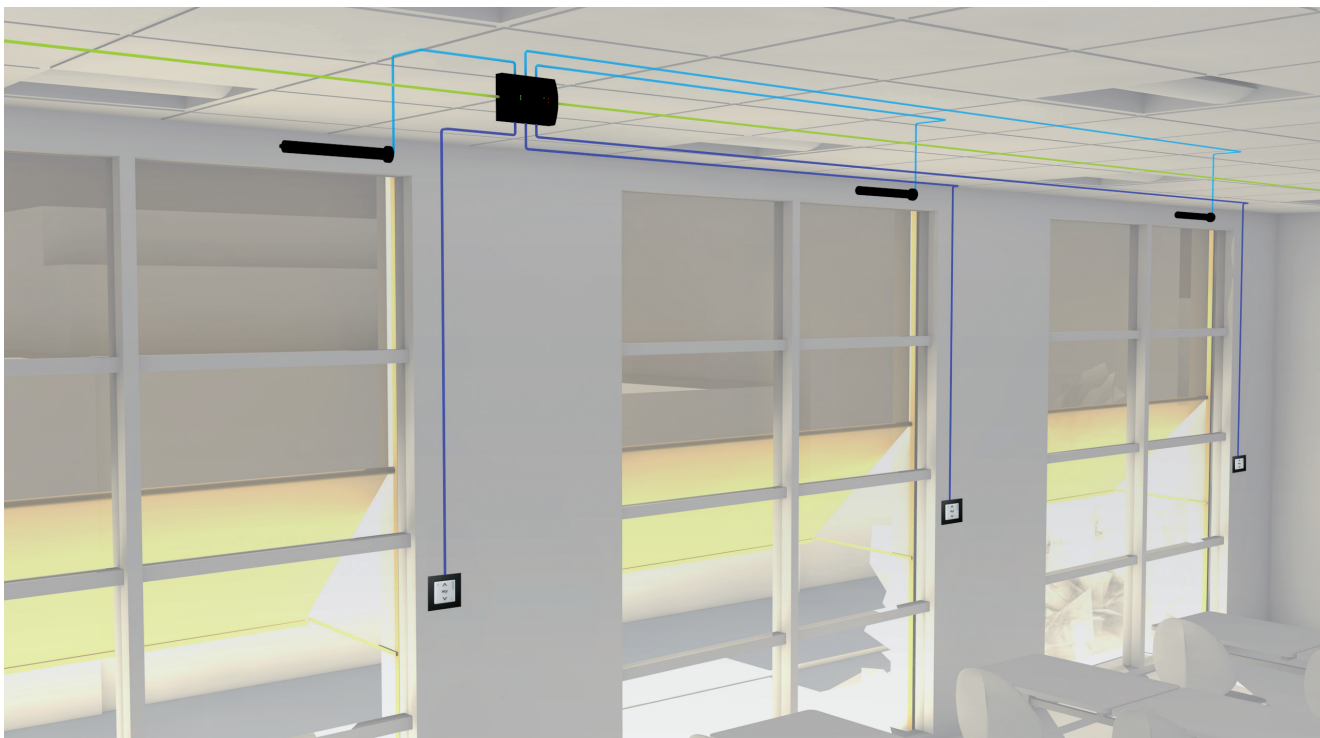
Motor Controller with Telis Modulis RTS/ Smoove Uno RTS remote controls

RTS
Radio Technology Somfy®

animeo KNX Motor Controllers are compatible with RTS radio cards:
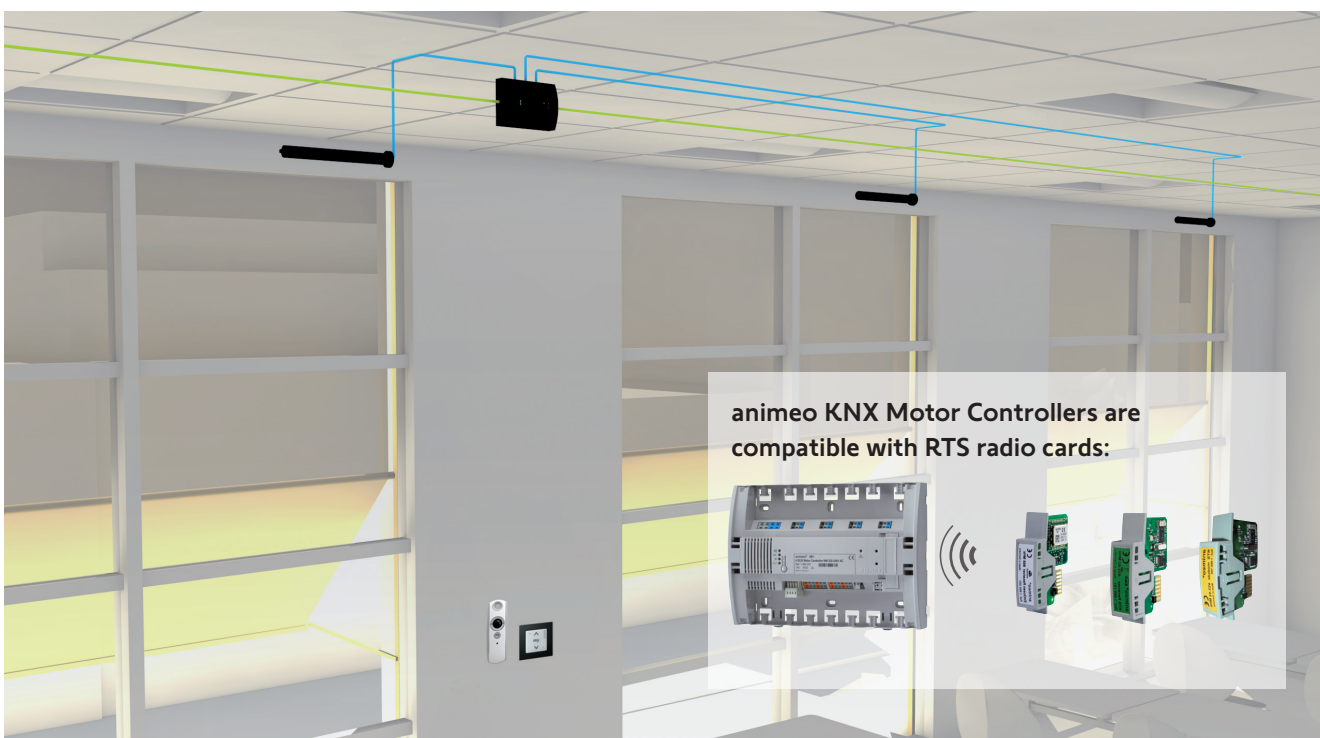
Solutions for buildings

Typical animeo IP/io and IP/RS485 installation

Somfy RS485 devices connected to one data communication line

Somfy
Digital
Network
RS485
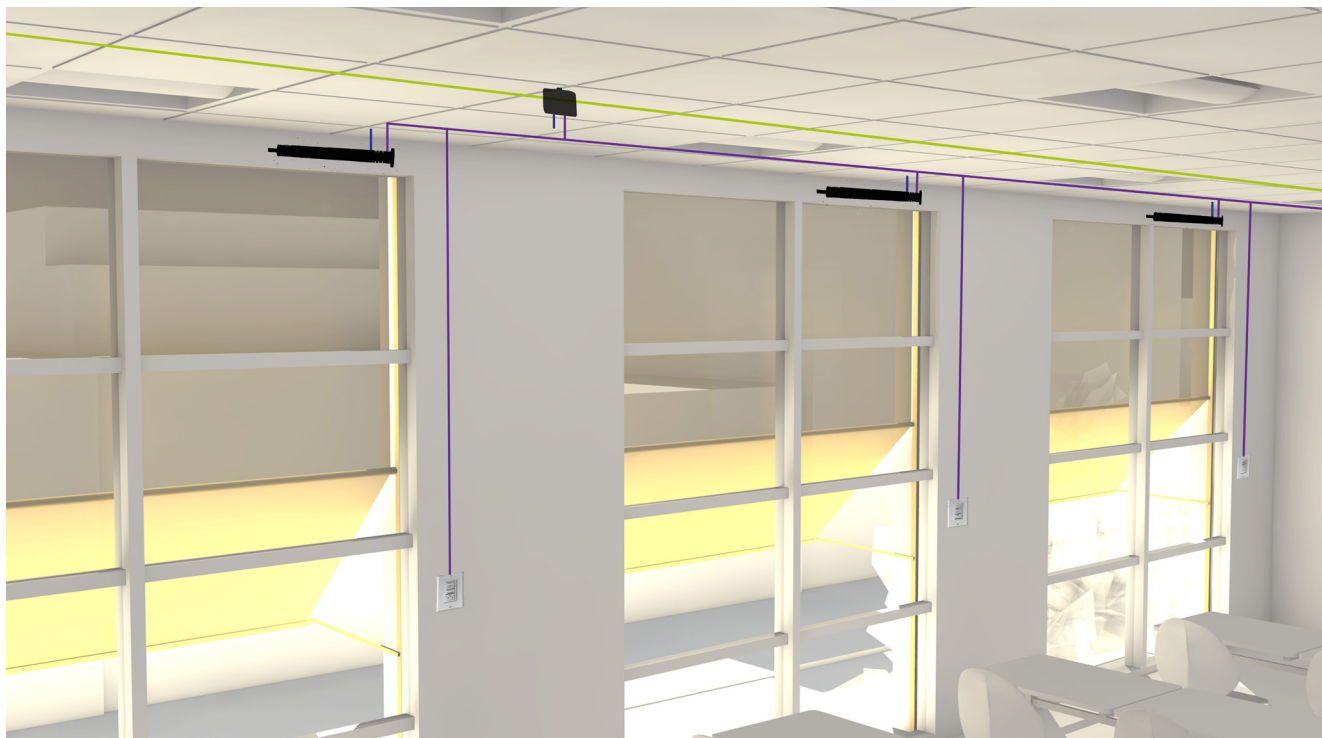
USB io Transceiver to integrate motors and local controls

Somfy
io-homecontrol®
motors
compatible
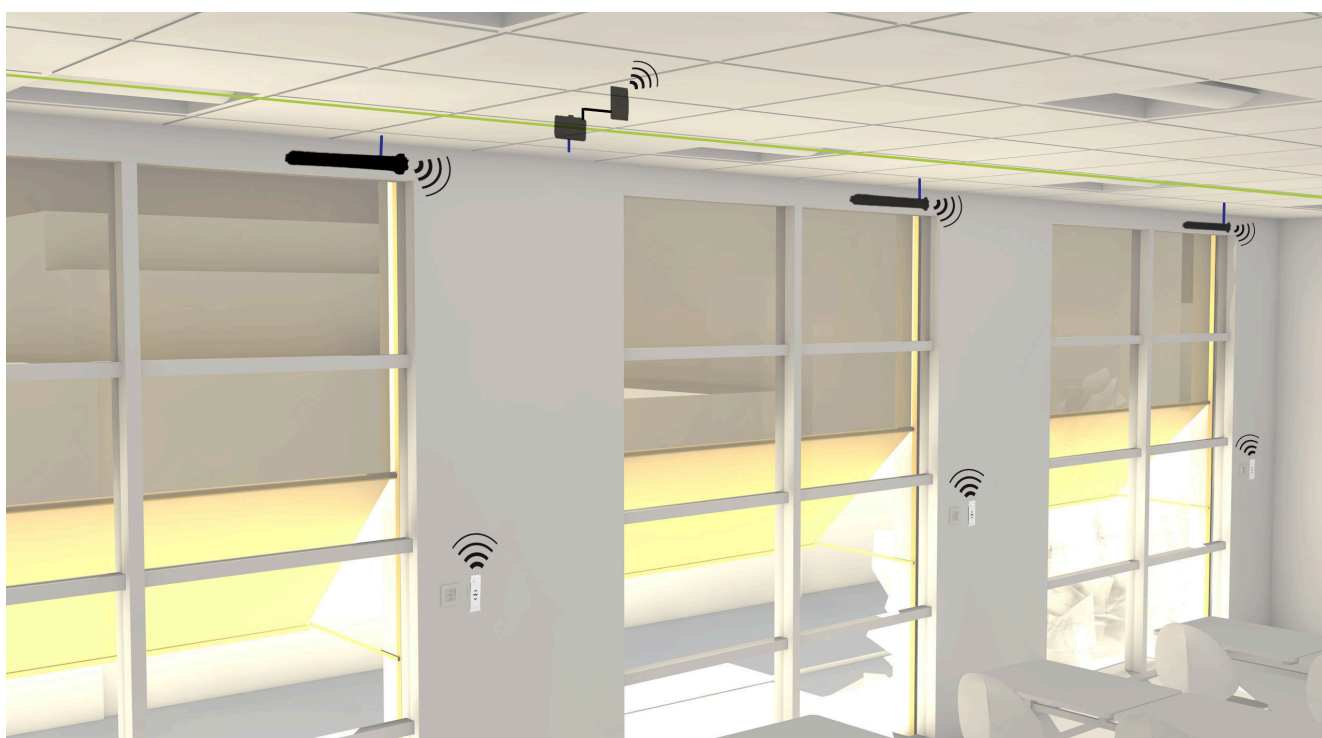
Solutions for buildings

Selection of local controls for the animeo range

Somfy solutions include a wide range of fixed or remote local controls according to building usage (public/private). All local controls dedicated to the different animeo solutions (Solo, IB+, IP, KNX, LON) can be found in the relevant chapters.

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

• Pure shine	Ref. 1 810 873
• Black shine	Ref. 1 810 902
• Silver shine	Ref. 1 810 904
Adapter disc for other switching programs	Ref. 9 016 911

Smoove frames

Smoove frames

• Pure	Ref. 9 015 022
• Silver Mat	Ref. 9 015 025
• Black	Ref. 9 015 023
• Light Bamboo - wood finish	Ref. 9 015 027
• Ambergris Bamboo - wood finish	Ref. 9 015 026
• Cherry - wood finish	Ref. 9 015 236
• Walnut - wood finish	Ref. 9 015 237
• Double frame pure	Ref. 9 015 238

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability. Operation via the big UP, DOWN and STOP buttons is possible at any time.

Smoove IB Origin	Ref. 1 811 272

Smoove 1 RTS Origin

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via the big UP, DOWN and STOP buttons is possible at any time.

Smoove 1 RTS Origin	Ref. 1 811 218

Solutions for buildings

Selection guide for sensors associated with animeo solutions

	Wind				Temperature	
	Ref. 9 013 807	Ref. 9 001 608	Ref. 9 140 180	Ref. 9101479	Ref. 9 001 611	Ref. 9 008 044
	Wind Direction Sensor	Wind Sensor	Heated Wind Sensor	Eolis Sensor	Outside Temperature Sensor	Inside Temperature Sensor
animeo **Solo**		OK (1)		OK (1)	OK (1)	OK (1)
animeo **IB+**	OK (2)	OK (2)	OK (2)		OK (2)	OK (3)
animeo **IP/io**	OK (2)	OK (2)	OK (2)		OK (2)	OK (3)
animeo **IP/RS485**	OK (2)	OK (2)	OK (2)		OK (2)	OK (3)
animeo **KNX**	OK (5)	OK (7)	OK (7)		OK (5)	OK

(1) Directly connected to animeo Solo Building Controllers 1 and 2.
(2) Directly connected to the Outside sensor box.
(3) Directly connected to the Inside sensor box.
(4) Directly connected to the Building Controllers.

Solutions for buildings

Sun		Rain		Combined sensors/Sensor Station					
Ref. 9 154 043	Ref. 9 154 217	Ref. 9 016 344	Ref. 9016345	Ref. 9154080	Ref. 1 870 932	Ref. 1 860 306	Ref. 9 013 726	Ref. 9 013 727	Ref. 1 860 307
Kit Sun Sensor and bracket	Sun Sensor (without bracket)	Rain Sensor Ondeis 24 V DC	Rain Sensor Ondeis 230 V	Sun and wind combined sensor Soliris IB	Weather Station KNX	Weather Station M8	Sensor Station	Sensor Station extended	Weather Station M13
	OK (1)	OK (1)	OK (1)	OK (1)					
OK (2)		OK (2)				OK	OK (4)	OK (4)	OK
OK (2)		OK (2)				OK	OK (4)	OK (4)	OK
OK (2)		OK (2)				OK	OK (4)	OK (4)	OK
OK (5)		OK (5)			OK	OK	OK (6)	OK (6)	OK

(5) Directly connected to the Outside sensor box and to the Master Control W2 and W8.

(6) Directly connected to the Outside sensor box and the sensor is directly connected to the Master Control W2 and W8

(7) Directly connected to the Master Control W2 and W8.

Solutions for buildings

Comparative table of functions

	Solo	IB +	IP/io	IP/RS485	KNX
BMS interoperability (BACnet)	-	✔	✔	✔	✔
Integrated data logging (system status)	-	✔	✔	✔	✔
Integrated building timer	✔	✔	✔	✔	✔
Integrated zone timer	-	✔	✔	✔	✔
Integrated yearly timer	-	-	✔	✔	✔
Zone control switch/key switch	✔	✔	✔	✔	✔
System configuration — PC software	-	✔	✔	✔	✔
System configuration — Via display	✔	-	-	-	-
System operation — PC software (BMS)	-	✔	✔	✔	✔
System operation — Via display	✔	-	-	-	✔

User comfort/Energy saving functions

	Solo	IB +	IP/io	IP/RS485	KNX
Wired local control	✔	✔	-	✔	✔
Radio local control (Somfy RTS/io)	✔	✔	✔	-	✔
Web remote control			✔	✔	✔
Radio link to Bus network (Somfy RTS)	-	-	-	-	✔
Light control through Somfy RTS	-	-	-	-	✔
Inside temperature	-	✔	✔	✔	✔
Sun	✔	✔	✔	✔	✔
Sun tracking	-	✔	✔	✔	✔
Zone based shadow tracking	-	-	-	-	✔
Window based shadow tracking	-	-	-	-	-
Auto/Manual priority	-	✔	✔	✔	✔
Auto/Manual priority via presence detector	-	✔	-	-	✔
Link to HVAC system	-	✔	✔	✔	✔
DALI connection/Light scenes	-	-	-	-	✔

Security Functions

	Solo	IB +	IP/io	IP/RS485	KNX
Alarm input	✔	✔	✔	✔	✔
Wind speed	✔	✔	✔	✔	✔
Wind direction	-	✔	✔	✔	✔
Rain	✔	✔	✔	✔	✔
Outside temperature	✔	✔	✔	✔	✔
Snow	-	✔	✔	✔	✔
Frost	✔	✔	✔	✔	✔
Ice	-	✔	✔	✔	✔
Window contact	-	-	-	-	✔

animeo Solo

- System topology
- Benefits
- Products
- Project example

animeo Solo

The easy-to-use system to control 1 or 2 zones and up to 800 motors is specifically designed for small buildings.
animeo Solo is based on IB Somfy Controlling Technology and can also be integrated with the animeo IB+ Motor Controller.

System topology

Outside sensors
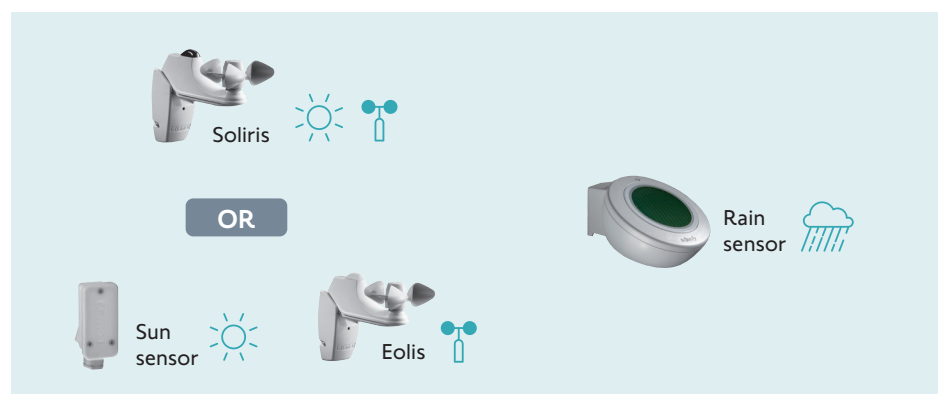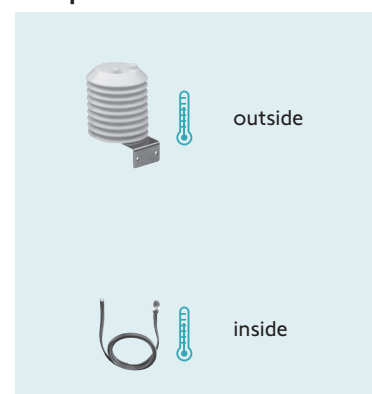
Soliris

OR

Sun sensor

Eolis

Rain sensor

Temperature sensors

outside

inside

Building Controllers

animeo Solo **1 zone**

animeo Solo **2 zones**

Compatible with radio local control

Radio receiver

RTS
Radio Technology Somfy®

Motor Controllers

4 outputs

1 output

1 output

2 outputs

animeo Solo
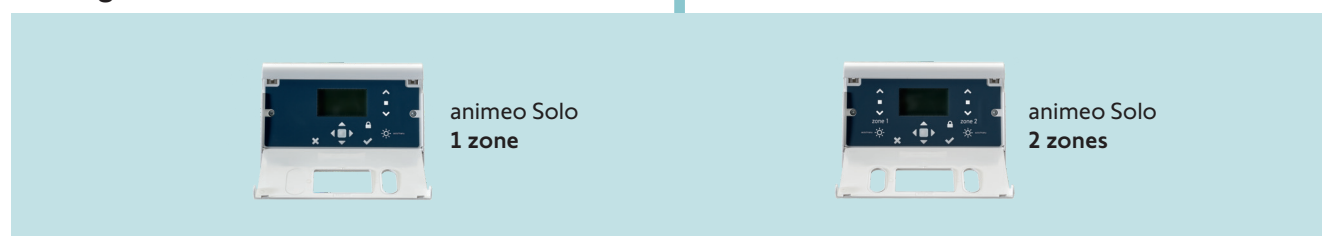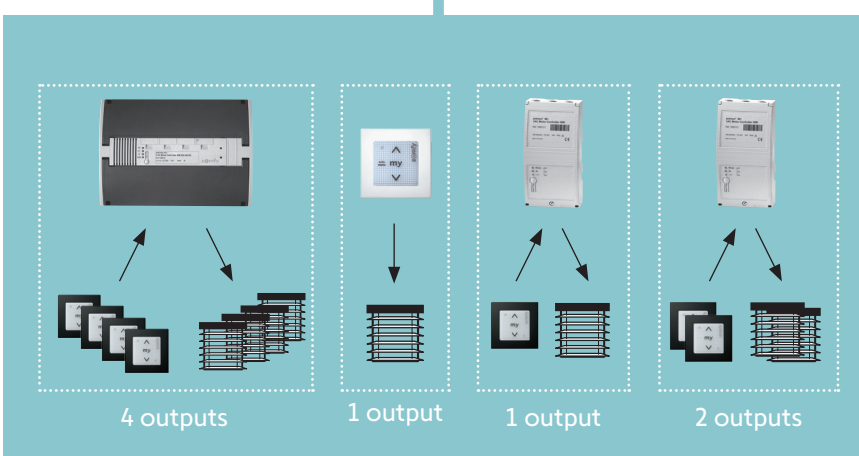
Benefits

Easy programming and installation

- Easy programming and commissioning using the LCD display (no need for a computer).

- The system comes with a basic configuration, and the user can use the screen-based interface to program the system, which saves commissioning time on site.
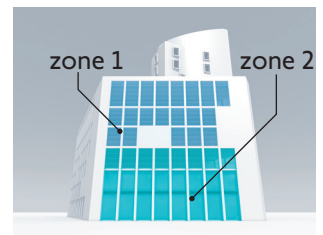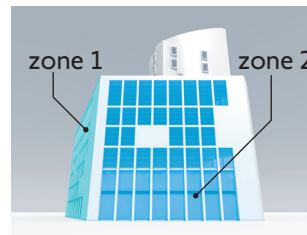
Energy-saving functions

- Effective management of solar gains and light levels to improve building energy performance and occupants visual comfort.

- In summer and winter alike, animeo Solo automatically controls your motorized sun protection devices using sensors. In winter, for example, as soon as night falls, the pre-programmed "cold protection" function closes all shutters and sun protection devices in order to increase window insulation and avoid excessive heating consumption.

- In the daytime, on the other hand, its "natural heating" function opens the shutters and sun protection devices to make the most of the sun's solar energy.
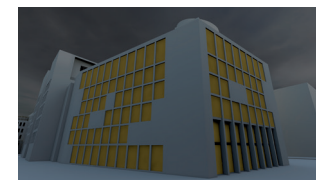
Simple operation for facility management

- The building manager can control (up - down - stop) each zone separately or lock zones for maintenance operations such as window cleaning.

- The LCD continuously presents the system status and weather data such as wind speed, rain, sun radiation and temperature.

animeo Solo

Building Controller

animeo Solo Building Controller

Central Control unit to manage of 1 or 2 façade orientations.

Product benefits

- Controlling up to 2 zones or façades.
- For each zone, up to 100 Motor Controller devices can be connected.
- AC, DC or DC-E motor systems can be controlled (one type per zone).
- Compatible with all Motor Controller devices from the Somfy Controlling technology: animeo IB+, IB-Inteo, CD.

At zone / façade level

- Precise setting of running and tilting times depending on the selected end product to be controlled.
- Sun function with configurable threshold values, time delays, positions and angle.
- Wind security function with configurable threshold values and sensor assignment.
- Rain and frost security function with configurable threshold value and time delays.
- Outside temperature function with configurable threshold value and time delays.
- Direct connection of 1 or 2 independent zone switches for maintenance purposes.

At building level

- Timer with 2 time settings per day to configure an UP or DOWN command (incl. blocking).
- An input for the major alarm, potential free contact. When the input is active all end products are locked in the UP position.

Dimensions (w × h × d)	225 × 149 × 49 mm
Degree of protection	IP 20
Protection class	I
Operating voltage	230 V AC
Operating temperature	0° C to +45° C

animeo Solo 1 zone	Ref. 1 860 143
animeo Solo 2 zone	Ref. 1 860 144

Sensors and accessories

Soliris Sensor

Combined weather station to measure wind speed and sun intensity.

Product benefits

- To measure wind speed and sun intensity combined in one housing.
- Comfort threshold setting on the animeo Solo.

Dimensions (w × h × d)	160 × 236 × 40 mm
Degree of protection	IP 34
Protection class	II
Wiring recommendations	2 × 2 × 0.8 mm

Soliris Sensor	Ref. 9 154 080

Eolis Sensor

Wind speed sensor in a compact housing to measure wind speed.

Product benefits

- To measure wind speed.
- Comfort threshold setting on the animeo Solo.

Dimensions (w × h × d)	160 × 236 × 40 mm
Degree of protection	IP 34
Protection class	II
Wiring recommendations	2 × 2 × 0.8 mm

Eolis Sensor	Ref. 9 101 479

animeo Solo

Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits
- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2×0.8 mm^2

Wind Sensor	Ref. 9 001 608

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits
- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions Sun Sensor (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2×0.8 mm
Angle position	150°

Sun Sensor (without mounting brackets)	Ref. 9 154 217
Mounting brackets for Sun Sensor	Ref. 9 127 888

Outside Temperature Sensor

To measure the exterior temperature.

Product benefits
- Precise measurement of exterior temperature values which can be displayed in °C or °F in the animeo building control solutions.
- Protective housing to prevent measurements influenced by spiders and birds
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2×0.8 mm

Outside Temperature Sensor	Ref. 9 001 611

Housing for Inside Temperature Sensor

To install an Inside Temperature Sensor.

Dimensions (w × h × d)	75 × 75 × 25 mm

Housing for Inside Temperature Sensor	Ref. 9 008 045

animeo Solo

Sensors and accessories

Inside Temperature Sensor

To measure the inside temperature.

Inside Temperature Sensor	Ref. 9 008 044

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

• Fast, simple and flexible assembly. Wall assembly or installation on standard mast with 50 mm diameter.

• 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).

• Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	3 × 1.5 mm

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Power Supply DRM 24 V DC 1.5 A

To supply the Rain Sensor Ondeis and the wind sensor.

Dimensions (w × h × d)	78 × 93 × 56 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output voltage	24 V DC
Output current	1.5 A

Power Supply DRM 24 V DC 1.5 A	Ref. 9 017 611

For Din-rail installation, 4 SU's.

animeo **Solo**

Local controls

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

• **Pure shine**	Ref. 1 810 873
• **Black shine**	Ref. 1 810 902
• **Silver shine**	Ref. 1 810 904
Adapter disc for other switching programs	Ref. 9 016 911

For wall-mounted installation.

Smoove frames

Smoove frames

• **Pure**	Ref. 9 015 022
• **Silver Mat**	Ref. 9 015 025
• **Black**	Ref. 9 015 023
• **Light Bamboo - wood finish**	Ref. 9 015 027
• **Ambergris Bamboo - wood finish**	Ref. 9 015 026
• **Cherry - wood finish**	Ref. 9 015 236
• **Walnut - wood finish**	Ref. 9 015 237
• **Double frame pure**	Ref. 9 015 238

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

For flush-mounted installation.

Smoove 1 RTS Origin

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via the big UP, DOWN and STOP buttons is possible at any time.

Smoove 1 RTS Origin	Ref. 1 811 218

animeo Solo

Project example

Functionality required and specified by the building owner

- A small building with two separate floors to be controlled
- The solution must be simple and intuitive to install
- An easy-to-operate display is desired for the user interface
- Local control through sensitive touch is also requested for excellent user comfort.

——— Links to sensors
——— Bus line Solo
——— Power supply
——— Motor cable
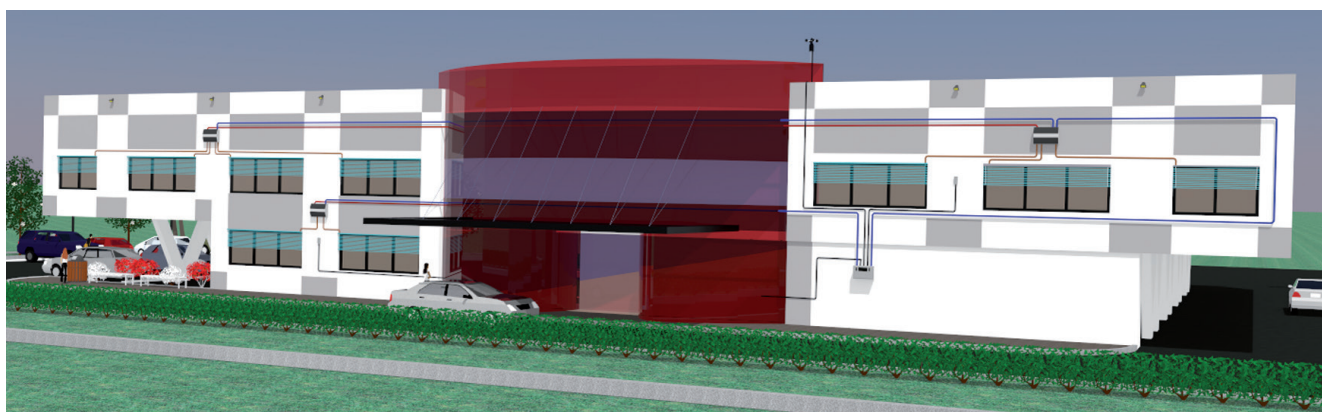
Products installed

animeo Solo
2 zones
Ref. 1 860 144

Soliris Sensor
Ref. 9 154 080

Rain Sensor
Ref. 9 016 345

Outside tempera-
ture Sensor
Ref. 9 001 611
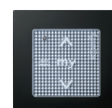
Motor Control-
ler Smoove
UNO IB+
Ref. 1 811 205

animeo Motor
Controller
Ref. 1860049

Automatic functions

- Wind security per zone
- Sun automatic per zone
- Rain and frost security
- Daily timer per zone

animeo Solo

Installation details
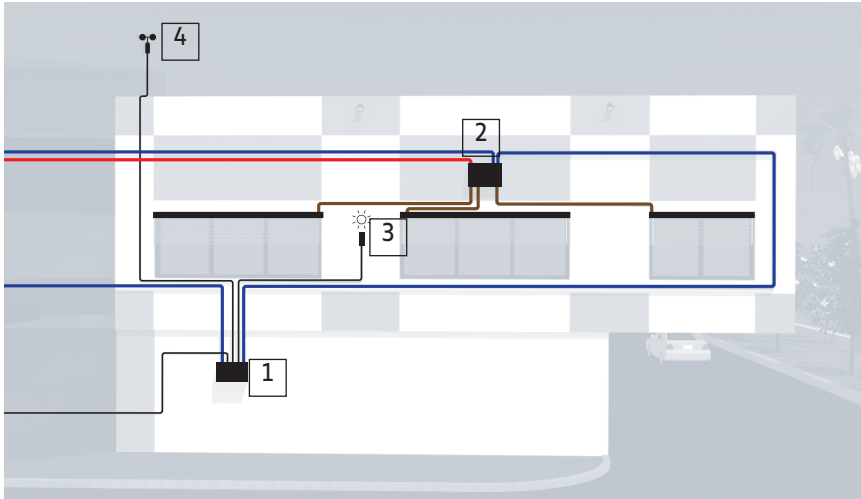
The animeo Solo Building Controller is directly connected to the Motor Controllers, the Sun Sensor and the Sensor Station on the roof.

1. animeo Solo
2. Motor Controllers
3. Sun sensor
4. Wind sensor
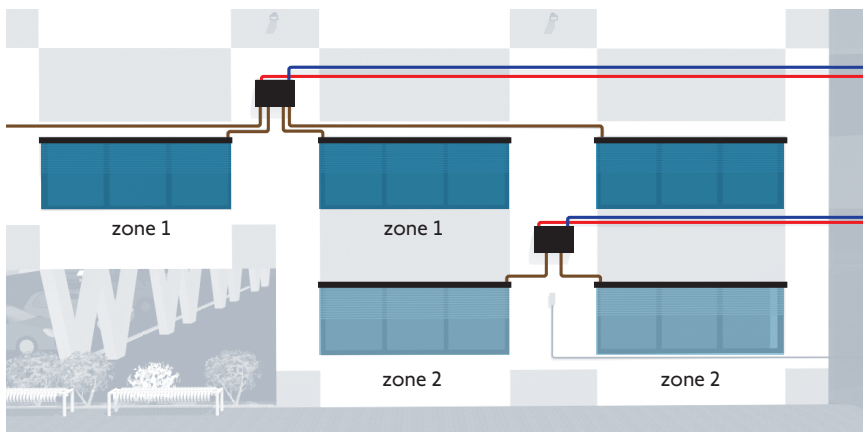
The animeo Solo Building Controller enables automation of two zones (here: ground floor and first floor).

Each automatic function applies per zone.

animeo Solo

animeo IB+

- System topology
- Benefits
- Products
- Project example

animeo IB+

An intelligent system to control 1 to 8 zones. Specifically designed for small to large buildings.

System topology

Inside sensors

Max **16 x**   Max **4 x**

Inside Sensor Box

Outside sensors

4 x [1]
8 x [2]

Weather Station M8 [1]
Weather Station M13 [2]

OR

Outside sensors

Max **12 x**   Max **4 x**

Outside Sensor Box

Building Controller

TouchBuco / TouchBuco BACnet

BACnet [*]

1 - 4 zones   1 - 8 zones
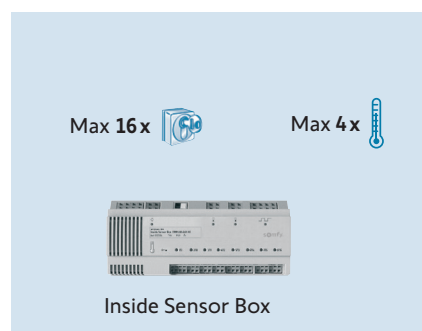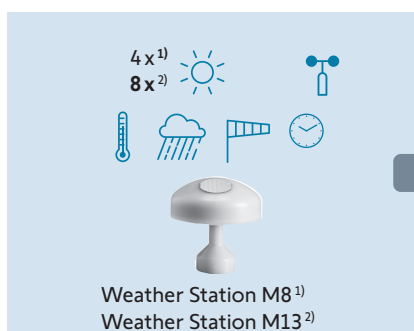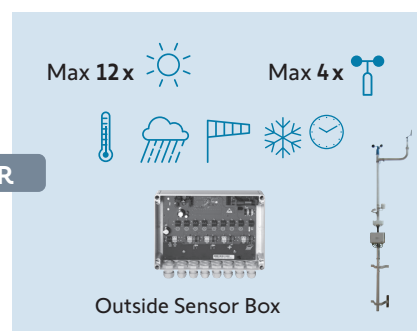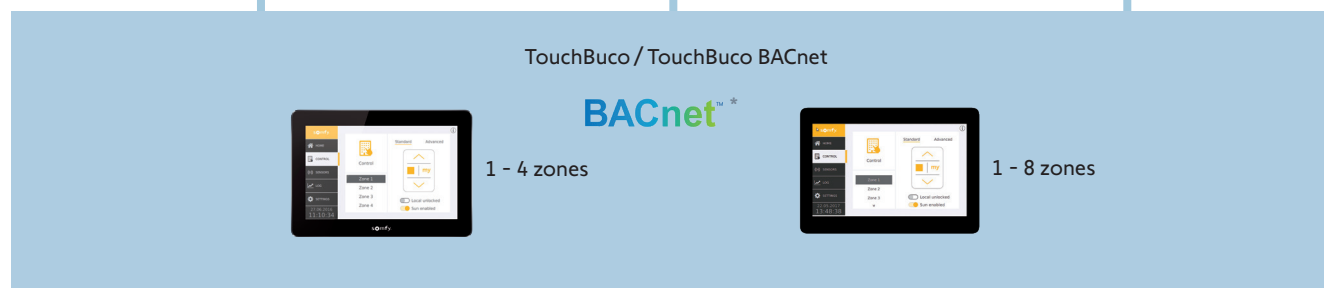
* BACnet™ is a trademark of ASHRAE

Motor Controller

6 outputs   1 output   1 output

4 outputs   1 output   2 outputs

Compatible with radio local control

Radio Receiver

RTS
radio Technology Somfy®

animeo IB+
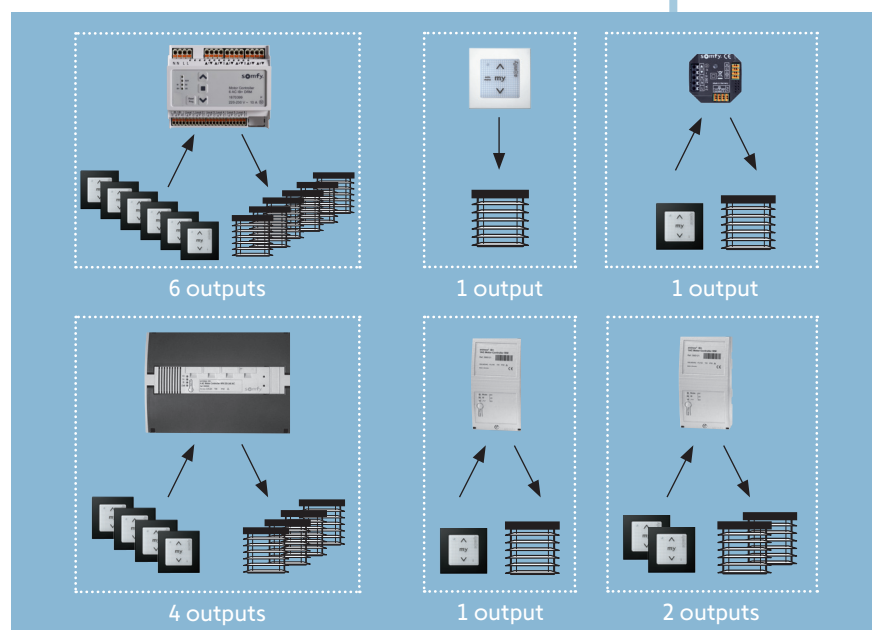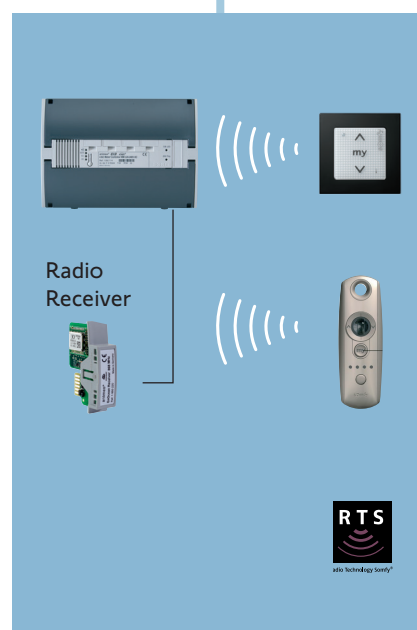
Benefits

Application independent

- Very extensive and comprehensive selection of functions and parameters, specially matched to the type of end product to be controlled such as Venetian blinds, blinds, roller shutters and windows.
- The system comes with a basic configuration and the user can use the screen-based interface to program the system and define the zones.
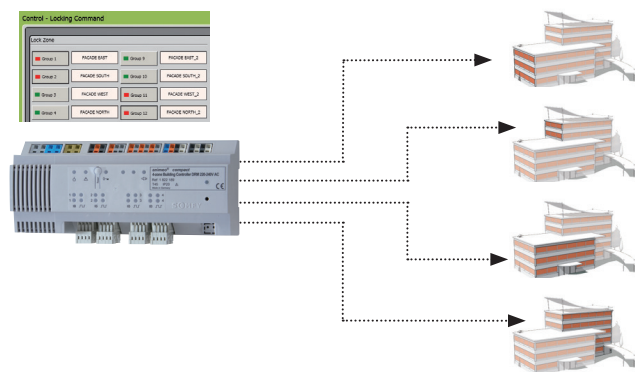
Tracking the sun's position
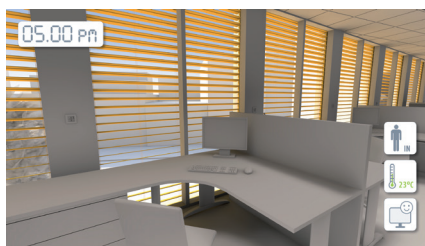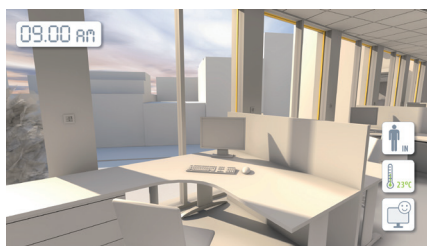
- The sun tracking function positions the Venetian blind slats according to the direction of the sun's rays for the best visual comfort all day long.

Reduced energy costs

- Optimised energy savings in combination with a variety of functions: natural air-conditioning, cooling, heating, limited tilting angle, etc.
- The system switches back to automatic at a pre-defined time.

Optimum balance between user comfort and automatic funtions

- Advanced operating mode: enhanced room-specific user comfort by disabling non-security functions (e.g. sun) as soon as local operation has been assigned.

Interoperability with other equipment

- Open to Building Management System via BACnet

BACnet™ *

* BACnet™ is a trademark of ASHRAE

animeo IB+

Building Controller

4 Zone/8 Zone TouchBuco/BACnet

BACnet™ *

Product benefits

- The 4 Zone/8 Zone TouchBuco™ is a central unit designed for solar shading and window automation to control up to four or up to eight individual façade orientations of a building. It answers to different building segments such as public, commercial, healthcare, education and is applicable for any interior or exterior application.
- Configuration, monitoring and maintenance is realized through a menu guided intuitive capacitive 7 inch user touch screen providing a wide range of useful functions optimizing the building performance.
- The TouchBuco is compatible with all animeo IB+ Motor Controllers and the new 2 wire IB+ bus technology.

Further features

- One system can control up to 400 motors.
- New 2-wire IB+ bus technology.
- User-friendly configuration interface with a step-by-step guide, remote implementation and access for maintenance.
- The separation of the Sensor Interface (Outside Sensor Box), which is normally mounted outside, and the control center (Building Controller), which is normally mounted inside, enables extremely cost-effective lightning protection for the system.
- Several units can interact with a single Sensor Interface (Outside Sensor Box or Compact Sensor).
- Communication between the Outside Sensor Box and the Building Controller is monitored.
- Extensive yet clear selection of functions and parameters which are specially tailored to the type of end product to be controlled (Venetian blinds, blinds, roller shutters and windows).
- Sun function with configurable threshold values, time delays, position, angled orientation for Venetian blinds, freely defined sensor assignment, for each zone.
- Sun tracking: instead of one fixed position an unlimited number of positions can be actuated for each zone, depending on the time, date and location of the building.
- Wind safety function in combination with wind direction: to increase the lifetime of the blind elements, they can be moved into a safety position if a certain wind force is reached and if the wind direction is such that the specific zone is affected.

* BACnet™ is a trademark of ASHRAE

- The blind elements are only moved into the safety position if there are strong winds.
- Rain and snow safety function with configurable time delays, both for each area.
- Saving three months worth data: events, settings, sensors, values etc.
- Zone timer with six configurable time ranges per day for the configuration of an up and down or position command.
- Potential free main alarm input with configurable action per area: up and down command with lock.
- Password protection for settings.
- BACnet: Sensor values can be shared with the BMS (Building Management System). The BMS can send commands to any zone with the desired priority level.

Dimensions (w × h × d)	200 × 132 × 72 mm
Degree of protection	IP 20
Protection class	I
Operating voltage	100 – 230 V AC
Operating temperature	0° C to + 45° C

animeo IB + 4 Zone TouchBuco (CE, EAC, UL, KC)	Ref. 1 860 254
animeo IB + 8 Zone TouchBuco (CE, EAC, UL, KC)	Ref. 1 860 255
animeo IB + 4 Zone TouchBuco BACnet (CE, EAC, KC)	Ref. 1 870 474
animeo IB + 8 Zone TouchBuco BACnet (CE, EAC, KC)	Ref. 1 870 475
animeo IB + 4 Zone TouchBuco BACnet (UL)	Ref. 1 860 308
animeo IB + 8 Zone TouchBuco BACnet (UL)	Ref. 1 860 309

animeo IB+

Building Controller

<div class="banner">Building Controller</div>

4 zones   8 zones

Product benefits
- A system with one Building Controller can control up to eight zones (façade orientation) and a system with two Building Controllers can control up to 16 zones.
- Optimised energy savings in conjunction with a wide range of functions: natural ventilation, cooling, heating.
- Enhanced operating mode: increased, room-based user comfort thanks to the suppression of centralised non-safety functions (for example, sun function) as soon as local controls are used. The system is switched back into automatic mode at three freely definable times each day.
- Restricted Venetian blind tilting angles for room users ensure energy savings whilst still enabling excellent lighting comfort.
- Compatible with all conventional Motor Controllers (animeo IB+, Inteo and CD). For maximum functionality, we recommend animeo IB+ Motor Controllers.

Further features
- One system can control up to 6400 motors.
- User-friendly configuration software (for setup, it is recommended that the technician is fully familiar with sun protection and window control systems in order to ensure the best possible system performance).
- The separation of the Sensor Interface (Outside Sensor Box), which is normally mounted outside, and the control center (Building Controller), which is normally mounted inside, enables extremely cost-effective lightning protection for the system.
- Communication between the Outside Sensor Box and the Building Controller is monitored.
- Extensive yet clear selection of functions and parameters which are specially tailored to the type of end product to be controlled (Venetian blinds, blinds, roller shutters, and windows).
- Sun function with configurable threshold values, time delays, position, angled orientation for Venetian blinds, freely defined sensor assignment, for each zone.
- Sun tracking: instead of one fixed position, up to three different positions can be actuated per day for each zone. These three positions can be set by the software and can differ for each month. They can be manually maintained in the system.
- Wind safety function in combination with wind direction: to increase the lifetime of the blind elements, they can be moved into a safety position if a certain wind force is reached

and if the wind direction is such that the specific zone is affected.
- The blind elements are only moved into the safety position if there are strong winds (gale warning).
- Rain and snow safety function with configurable time delays, both for each area.
- Ice safety function with configurable temperature threshold value and delay times, both for each zone.
- Zone timer with two configurable time ranges per day for the configuration of an up and down or position command.
- Central timer with two configurable time ranges per day for the configuration of an up and down command.
- Potential free main alarm input with configurable action per area: up and down command with lock.
- Password protection for settings.
- Potential free error output if, for example, a sensor fails.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C

animeo IB + Building Controller 4 zones	Ref. 1 822 395
animeo IB + Building Controller 8 zones	Ref. 1 822 064

For DIN-rail installation, 12 SUs.

<div class="banner">Operating Software + Interface</div>

Interface between the Building Controller and the computer including configuration and user software.

Product benefits
- User-friendly screen display: large, high, good resolution, multi-coloured.
- Intuitively designed, comprehensive and operator-friendly.
- The Operating software can be used regardless of the location of the Building Controller installation.

Further features
- For computers with minimum Intel Pentium II, 500 MHz, Windows 2000, CD Rom disc drive, 128 MB storage and 40 MB free hard drive storage.

Software + USB/RS485 Interface	Ref. 9 012 519
USB/RS485 Interface	Ref. 9 016 356

33

animeo IB+

Sensors and accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

Product benefits

Further features

M8

- 8 sensors to collect the external conditions in 4 different orientations.

- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13

- 13 sensors to collect the external conditions in 8 different orientations.

- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/– 30 %
Operating temperature	–30 °C...+70 °C

Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm

Bracket for Weather Station	Ref. 1 860 320

Mounting accessories for Weather station M8/M13

Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335

Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket (2 pieces)	Ref. 1 860 336

Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321

Kit Mast with 25 mm adaptor (3 x Mast, 2 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Lightning protection

To protect the controls from lightning. Is used in conjunction with the Outside Sensor Box or Compact Sensor.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706

Inside Sensor Box

For connection to external push buttons or key switches per zone and up to 2 Inside Temperature Sensors.

Product benefits

- Window cleaners need no access to the complete user interface (animeo IP Visual Configuration Software).

- Inside Temperature Sensors enable easy extendability of the system's energy saving options.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C

Inside Sensor Box	Ref. 9 001 614

For DIN-rail installation, 12 SUs.

animeo IB+

Sensors and accessories

Housing for Inside Temperature Sensor

To install an Inside Temperature Sensor.

Dimensions (w × h × d)	75 × 75 × 25 mm
Housing for Inside Temperature Sensor	Ref. 9 008 045

Inside Temperature Sensor

To measure the inside temperature.

Inside Temperature Sensor	Ref. 9 008 044

animeo Power Supply DC

To supply the Outside Sensor Box (with heated sensors), the animeo KNX Master Control W2/W8 and the animeo LON Sensor Interface.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100%) 4.5 A (switch on duration 50%: 3 min on, 3 min off)

animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Outside Sensor Box
Outside Sensor Extension Box

Outside Sensor Extension Box
offers extension capabilities of two additional wind speed sensors and four sun sensors.

Outside Sensor Box
is the interface between the sensor stations or individual sensors to the animeo building control solutions. It requires an external 24 V AC/DC power supply.

Product benefits
- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor as well as a DCF plug module can be connected to the Outside Sensor Box.
- Only two cables must be laid to the outside. All wires easily integrated through spring clamp connectors.

Further features
- Easy and quick start-up in conjunction with animeo building control solutions.
- Status display through LED's for clear monitoring of connected and functioning individual sensors.

Dimensions (w × h × d)	207 × 255 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC/DC
Operating temperature	– 30° C to + 70° C

Outside Sensor Box	Ref. 9 001 606
Outside Sensor Extension Box	Ref. 9 001 607

animeo IB+

Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2 × 0.8 mm²

Wind Sensor	Ref. 9 001 608

Heated Wind Sensor

To measure wind speed in connection with the Outside Sensor Box. Recommended for geographical areas with severe winters.

Product benefits

- The turning parts can not get stuck due to ice or snow thanks to integrated thermostat controlled heating.
- Provides reliable and precise wind speed measurement during the winter period.
- High resilience and durability by precision bearing.

Dimensions	Height 190 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²

Heated Wind Sensor	Ref. 9 140 180

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

- Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.
- Very good starting value by magnetic contact-free measure principle.
- Winter and offshore usable.
- High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²

Wind Direction Sensor	Ref. 9 013 807

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Product benefits

- Precise measurement of exterior temperature values which can be displayed by °C or °F in the animeo building control solutions.
- Protective housing to prevent measurement influence by spiders and birds
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2 × 0.8 mm

Outside Temperature Sensor	Ref. 9 001 611

animeo IB+

Sensors and accessories

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque housing and UV stabilized. 24 V DC and 230 V DC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard mast with 50 mm diameter.
- 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	3 × 1.5 mm

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2 × 0.8 mm
Angle position	150°

Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station	Ref. 9 013 726

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station extended	Ref. 9 013 727

animeo IB+

Motor Controller for flush-mounted installation

Single flush-mounted
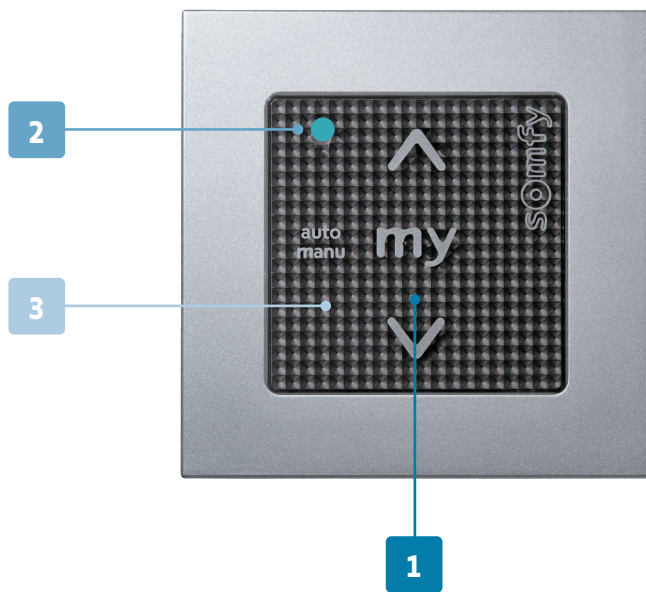
1
- Touch-sensitive technology
- my = intermediate position

2
- Display prioritised central commands (e.g. wind)

3
- Suitable for all 50 × 50 mm mounting frames
- 3 colors
- Combinable with cut-off relay for flush-mounted box
- Sun automatic on/off

Smoove frames

animeo IB+

Motor Controller

Smoove UNO IB+

For roller shutters, screens, exterior Venetian blinds and windows. Designed for flush-mounted installation.
For the individual control of 1 × 230 V AC motors via touch-sensitive switch or in groups via Somfy IB or animeo IB+ controlling technology.

Product benefits

• Fits in standard 50 x 50 mm frames

• Cover plate and frame can be integrated at finish to prevent soiling during installation.

• Feedback of active status through LED on the device.

Further features

• Priority management between local and automatic commands directly on the device or through different modes configurable via animeo IB+ Building Controller.

Dimensions (w × h × d)	71 × 71 × 44 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	3.15 A

Smoove UNO IB+ Pure Shine	Ref. 1 811 203
Smoove UNO IB+ Silver Shine (only on request)	Ref. 1 811 204
Smoove UNO IB+ Black Shine (only on request)	Ref. 1 811 205

For flush-mounted installation.

Accessories

Smoove UNO IB+ frames
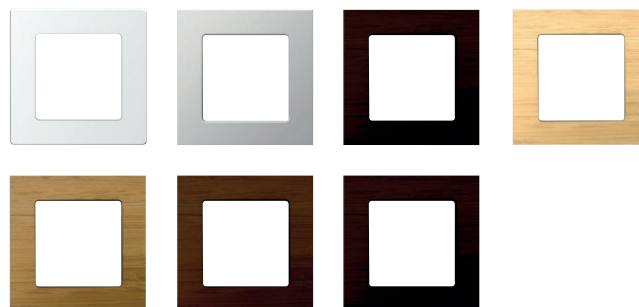
Smoove frames

• **Pure**	Ref. 9 015 022
• **Silver Mat**	Ref. 9 015 025
• **Black**	Ref. 9 015 023
• **Light Bamboo - wood finish**	Ref. 9 015 027
• **Ambergris Bamboo - wood finish**	Ref. 9 015 026
• **Cherry - wood finish**	Ref. 9 015 236
• **Walnut - wood finish**	Ref. 9 015 237
• **Double frame pure**	Ref. 9 015 238

animeo IB+

Motor Controller for wall-mounted or DIN-rail installation
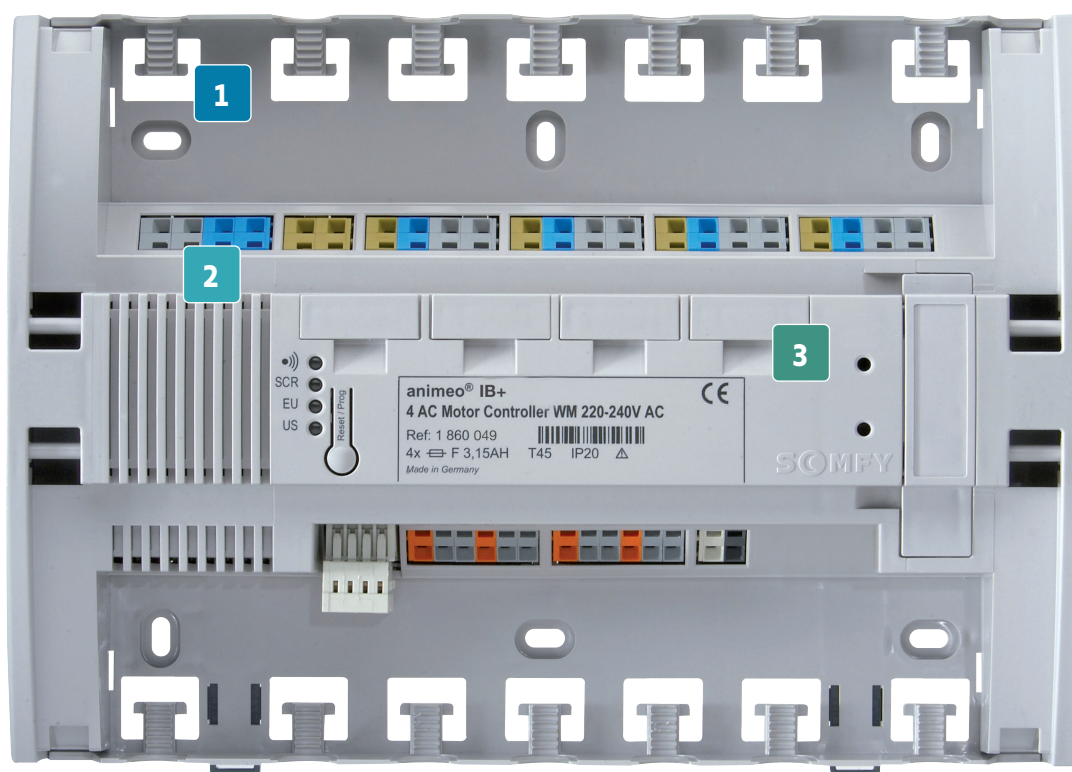
1 Quick assembly
• Integrated tension relief, usable with cable ties

2 Quick connectivity
• Spring-clip connectors
• Dual connectors (in-out), to connect to the mains circuit for example

3 Quick maintenance
• Fuse holder per motor output accessible from the outside

animeo IB+

Motor Controller

1 AC Motor Controller

1 AC Motor Controller
For roller shutters, screens, exterior Venetian blinds, exterior Venetian blinds with 3 end limits and windows. For the individual control of 1 × 230 V AC motor via local push buttons, or in groups with IB+ Controlling Technology.

1 AC Motor Controller Output Converter
Provides 1 x potential free output for individual control via local push buttons, or in groups with animeo IB+ Controlling technology.

Product benefits
- Compact design suitable for e.g. installation in under-window or wall-mounted wiring conduits.
- Local setting of an intermediate position and of user ergonomics.

Further features
- Easily accessible fuses.

Dimensions (w × h × d)	90 × 180 × 45 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	3.15 A

1 AC Motor Controller WM	Ref. 1 860 121
1 AC Motor Controller WM 3 end limit	Ref. 1 860 123
1 AC Motor Controller WM Output Converter	Ref. 1 860 125

For wall-mounted installation.

Dimensions (w × h × d)	65 × 105 × 20 mm
Degree of protection	according to installation type

1 AC Motor Controller Panel	Ref. 1 860 122
1 AC Motor Controller Panel 3 end limits	Ref. 1 860 124
1 AC Motor Controller Panel Output Converter	Ref. 1 860 126

Printed Circuit Board (PCB) version for DIN-rail installation.
Additional DIN-rail adapter needed.

1 AC Motor Controller IWM

Motor Controller for motorized external Venetian blinds, roller shutters and windows.
For the individual controlling of a 1 x 230 V AC motor via a unlocked serial push button and/or through Somfy solar shading management systems such as Somfy New Wired Range and Somfy animeo IB+. Available for flush mounting (IWM).

Product benefits
- Designed to fit in standard flush mounting boxes.
- Quick installation and integration of the Motor Controller through:
  1. Smallest possible housing dimensions following up to date installation norms.
  2. Spring tension connectors to fasten the wiring.
  3. Double terminals allow daisy chaining and provide space saving in the flush mounting socket.
- Independent of switch manufacturer design. Recommended: Somfy Smoove Origin IB, Ref. 1 811 272.
- Motor Controller can be used on delivery state with different selectable operating modes to choose from.
- Economical: < 0.5 W standby power consumption.

Further features
- A freely selecteable intermediate positon "my" can be chosen by the user.
- Intelligent switching between manual and automatic operation to guarantee excellent user comfort and energy savings.
- The Auto mode can optionally be switched on or off with a separate input.
- Adressable with visual feedback for the integration in Somfy solar shading management systems.
- Compatible with Somfy IB, Somfy animeo IB+ and installer-friendly 2-wire Somfy animeo IB+ technology.

Dimensions (w × h × d)	50 mm x 50 mm x 25 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 50° C
Output voltage	230 V AC
Output current	3 A

IB+ 1 AC Motor Controller IWM	Ref. 1 860 328

For wall-mounted installation.

animeo IB+

Motor Controller

2 AC Motor Controller

For roller shutters, screens, exterior Venetian blinds and windows. For the individual controlling of 2 × 230 V AC motors via local push buttons, or in groups with IB+ Controlling Technology.

Product benefits
- Compact design suitable for e. g. installation in under-window or wall-mounted wiring conduits.
- Local setting of an intermediate position and of user ergonomics.

Further features
- Easy accessible fuses.

Dimensions (w × h × d)	90 × 180 × 45 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	3.15 A

2 AC Motor Controller WM	Ref. 1 860 209
2 AC Motor Controller PCB	Ref. 1 860 210

For wall-mounted installation.

Printed Circuit Board (PCB) version for DIN-rail installation. Additional DIN-rail adapter needed (Ref. 9 008 049).

4 AC Motor Controller

For roller shutters, screens, exterior Venetian blinds and windows. For individual control of 4 × 230 V AC motors via local push buttons, or in groups with IB+ Controlling Technology.

Product benefits
- Upgradable for local controlling by radio.
- Local setting of an intermediate position and of user ergonomics.

Further features
- Easily accessible safety fuses per output.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	max. 3.15 A per output

4 AC Motor Controller WM	Ref. 1 860 049

For wall-mounted installation.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20

4 AC Motor Controller DRM	Ref. 1 860 081

For DIN-rail installation, 12 SUs.

Dimensions (w × h × d)	254 × 180 × 61 mm
Degree of protection	IP 20

Housing IP 54	Ref. 9 012 740

For the integration of a Motor Controller DRM in an IP 54 housing. For wall- mounted installation.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Output current	max. 3.15 A per output
Dimensions	255 × 180 × 61 mm
Degree of protection	IP 20

4 AC Motor Controller RTS WM	Ref. 1 860 109

For wall-mounted installation.

animeo IB+

Motor Controller

4 DC Motor Controller

For interior blinds, interior Venetian blinds and windows.
For individual control of 4 × 24 V DC motors via local push buttons, or in groups with IB+ Controlling Technology. External 24 V DC power supply required (see accessories).

Product benefits
• Upgradable for local controlling by radio.
• Local setting of an intermediate position and of user ergonomics.
• Configurable slats and turning speed for optimum user ergonomics.

Further features
• Output protected through current detection.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V DC
Operating temperature	0° C to + 45° C
Output voltage	24 V DC
Output current	up to max. 2.1 A per output

4 DC Motor Controller	Ref. 1 870 451

For wall-mounted installation.

6 AC Motor Controller
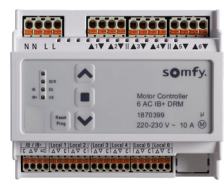
For roller shutters, screens, exterior Venetian blinds and windows. For the individual controlling of 6 × 230 V AC motors via local push buttons, or in groups with IB+ Controlling Technology.

Product benefits
• Push button on façade to validate the motor wiring direction.
• Status feedback through LEDs.
• Basic motor settings possible with the "PROG" button.
• Starting delay time setable for electronic motors.
• Access for software updates.

Further features
• Modern push-in CAGE CLAMP® connectors for any wire type.
• Daisy chain for the mains.

Dimensions (w × h × d)	110 x 90 x 60 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 50° C
Output voltage	230 V AC
Output current	max. 3 A per output

6 AC Motor Controller WM	Ref. 1 870 399

For DIN-rail installation in electrical cabinet, 6 SUs

animeo IB+

Accessories

RTS Radio Receiver

Receiver to upgrade 4 AC, 4 DC or 4 DC / DC-E Motor Controller sdevices. Direct plug-in to Motor Controller.

Dimensions (w × h × d)	52 × 92 × 27 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	5 V DC, from animeo IB+ Motor Controller
Operating temperature	0° C to + 45° C
Radio frequency	433 MHz
Radio range	20 m through 2 walls

RTS Radio module	Ref. 1 860 105

Power Supply DC

To supply power to the DC Motor Controller.

When using "Somfy Concept 25" motors, up to 2 Motor Controllers 4 DC can be supplied via one power supply (= 8 motors).
Switchable also in parallel: 2 x 4.5 A = 9 A.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100%) 4.5 A (switch on duration 50%: 3 min. on, 3 min. off)

Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Switch zone splitter

To create sub-groups within an IB+ zone.

Dimensions (w × h × d)	80 × 80 × 52 mm
Degree of protection housing	IP 65
Protection class	III

Switch zone splitter	Ref. 1 810 392

For wall-mounted installation.

Sensor Hub

A 4-ch isolated RS-485 active star wiring hub.

4 independent RS-485 output channels each equipped with an individual driver, and one RS-485 input channel. The data from a master to the input channel will simultaneously be forwarded to all the four output channels.

Dimensions (w × h × d)	72 × 122 × 35 mm

Sensor Hub	Ref. 9 018 147

For DIN-rail installation.

Flush Mounting Box TouchBuco

Dimensions (w × h × d)	192 × 119 × 68 mm

Flush Mounting Box TouchBuco	Ref. 9 019 837

Flush-mounted installation.

animeo IB+

Accessories

Surface Mounting Box TouchBuco

Dimensions (w × h × d)	254 × 180 × 90 mm

Surface Mounting Box TouchBuco	Ref. 9 019 838

For wall-mounted installation.

DIN-rail adapter

For installation on 35 mm DIN-rail to mount circuit board versions CD 1 × 1 P6, CD 2 × 1 P6, CD 1 × 4 P6, animeo 1 AC/2 AC Motor Controller PCB.

Dimensions (w × h × d)	70 × 105 × 23 mm

DIN-rail adapter	Ref. 9 008 049

For 35 mm DIN-rail, colour; black, 4 SUs

IB/IB+ Repeater
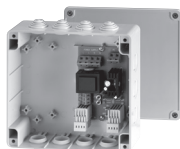
Circuit board for signal amplification of IB / IB+ controlling technology signal with longer cable connection (from 1000 m).

Dimensions (w × h × d)	165 × 160 × 60 mm
Degree of protection	IP 54
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C

IB/IB+ Repeater	Ref. 9 011 809

For wall-mounted installation.

IB+ Wiring Test Tool

To ensure that the system is properly wired.

animeo IB+ Wiring Test Tool	Ref. 1 810 793

RTS Programming Tool

Programming tool to assign remote control channels to the animeo RTS card (ref. 1 860 105).

RTS Programming Tool	Ref. 1 810 879

USB IB+ Interface

USB IB+ Interface for direct connection of the computer to the Motor Controller.

USB IB+ Interface	Ref. 1 860 146

animeo IB+

Local controls

Smoove 1 RTS

1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

• Pure shine	Ref. 1 810 873
• Black shine	Ref. 1 810 902
• Silver shine	Ref. 1 810 904
Adapter disc for other switching programs	Ref. 9 016 911

For wall-mounted installation.

Smoove frames

Smoove frames

• Pure	Ref. 9 015 022
• Silver Mat	Ref. 9 015 025
• Black	Ref. 9 015 023
• Light Bamboo - wood finish	Ref. 9 015 027
• Ambergris Bamboo - wood finish	Ref. 9 015 026
• Cherry - wood finish	Ref. 9 015 236
• Walnut - wood finish	Ref. 9 015 237
• Double frame pure	Ref. 9 015 238

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

For wall-mounted installation.

Smoove 1 RTS Origin

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via the big UP, DOWN and STOP buttons is possible at any time.

Smoove 1 RTS Origin	Ref. 1 811 218

animeo IB+

Project example

Functionality required and specified by the building owner

- Up to 8 separate façade zones are to be controlled.

- Ergonomic PC software for the user interface.

- Exterior Venetian blinds except for the ground floor to be equipped with roller shutters (security).

- Local control through Somfy RTS technology.

Links to sensors
Bus line IB+
Power supply
Motor cable

Products installed

| Building Controller Ref. 1 822 064 | Operating Software Ref. 9 012 519 | Weather Station M8/M13 Ref. 1 860 306 Ref. 1 860 307 | animeo Power Supply DC Ref. 1 860 093 | animeo Motor Controller Ref. 1 860 049 | RTS radio module Ref. 1 860 105 | Telis 4 Modulis RTS Lounge Ref. 1 810 664 | Smoove Origin Switch Ref. 1 811 272 |
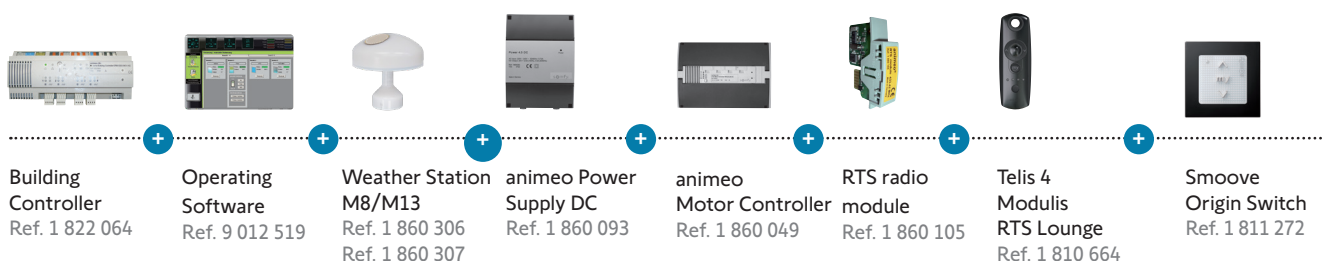
animeo IB+

Installation details
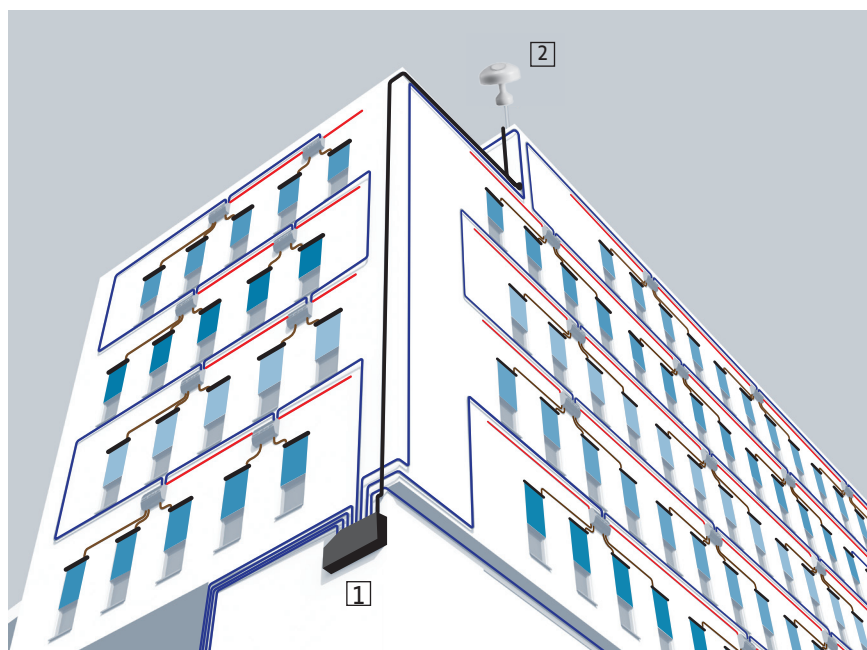
The animeo IB+ Building Controller enables automation of up to 8 zones.

The Weather Station is directly linked to the Building Controller and each zone is separately managed depending on the weather and other parameters to be defined.

1. animeo IB+ Building Controller
2. Weather Station M8/M13

To other zone
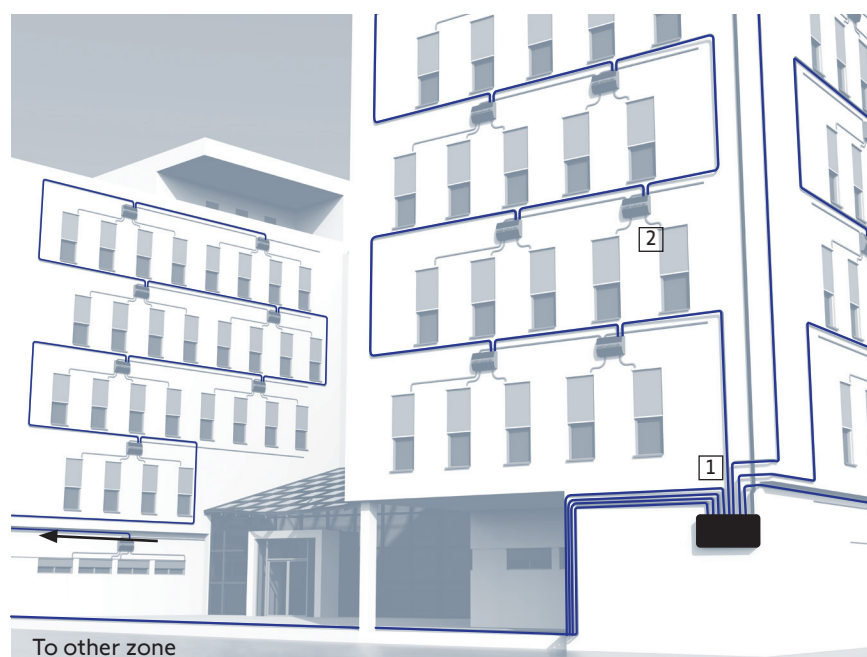
Each Motor Controller for the same zone is connected to the same IB+ network via the animeo IB+ Building Controller.

1. animeo IB+ Building Controller
2. animeo IB+ Motor Controller

animeo IP/io

- System topology

- Benefits

- Products

- Project example

animeo IP/io

Dedicated to the refurbishment of small and medium size buildings, animeo IP/io is the wireless solution that makes it easy to manage your commercial sector sites. This solution is especially dedicated to exterior screens.

Thanks to minimal wiring and plug and play installation, animeo IP/io reduces wiring mistakes.

An intuitive user interface allows simplified commissioning, building management and technical support, featuring drag-and-drop zone creation, motor discovery and at-a-glance system status updates.

System topology

Inside sensors (optional)*

4 x   2 x

Inside Sensor Box

Outside sensors (optional)*

4 x [1)]
8 x [2)]
GPS

Weather Station M8 [1)]
Weather Station M13 [2)]

OR

Outside sensors (optional)*

8 x   2 x
DCF

Outside Sensor Box

Building Controllers

Error output
Central control
Alarm input

animeo IP
Building Controller io

+

animeo IP
USB io Transceiver

for system expansion

animeo IP
Sub Controller io

+

animeo IP
USB io Transceiver

BACnet™ **

Operating options

animeo IP visual
configuration software

Compatible with radio local control and web remote

Radio motors

J4 io

Oximo io

Sunea io

Sunilius io

Smoove io   Situo io   Web remote

* Per Building Controller/Sub Controller   ** BACnet™ is a trademark of ASHRAE

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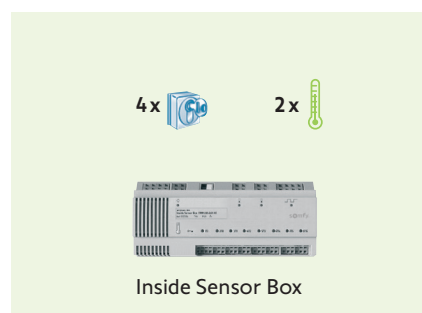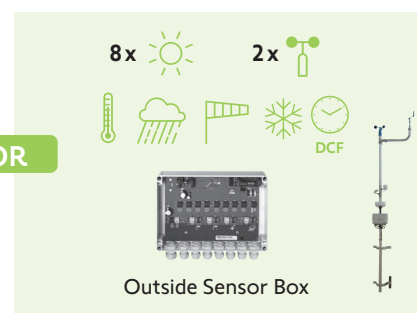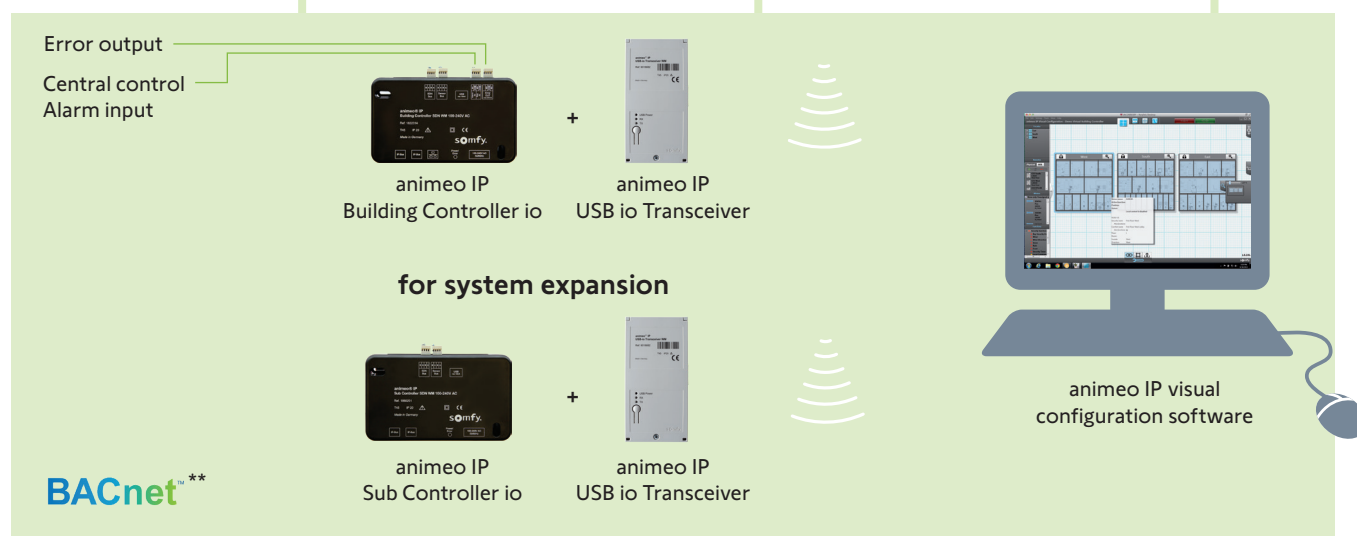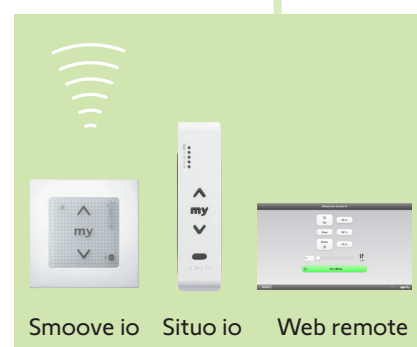
animeo IP/io

All benefits at a glance

Real and Astronomic Timed Events

- With animeo IP's timed events feature, schedules can be created to keep building's energy efficient based on certain times of day. Creating timed events around periods of high occupancy (between 8:00 AM and 6:00 PM, Monday to Friday) and low occupancy (weekends, holidays) ensures the building is running as efficiently as possible.
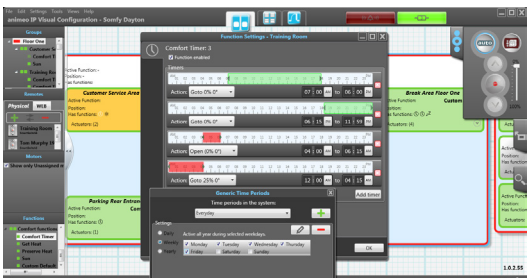
Control Versatility

- Wireless controls and virtual keypads provide occupants with control over nearby window coverings. animeo IP can override manual occupant commands during specific time periods (e.g. east façade from 8:00 AM - 12:00 PM) to keep the building running as efficiently as possible, providing just the right balance of manual and automated control.

Facility Manager View

Web remote

Smoove io

Situo io

Sun Tracking

- Automates natural light management based on the sun's position and façade orientation to minimize glare and maximize the opportunity for daylighting.
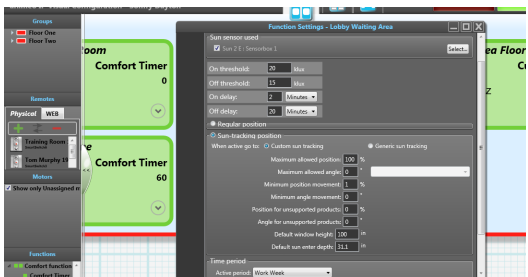
Facility Management

- animeo IP/io technology provides bi-directional status reporting of window covering positions. With this information, animeo IP exports system status snapshots in convenient graph or table form. Quickly see how and why shades were adjusted with simple color codes for timed events, occupant actions or building overrides. Facility managers can also receive systems alerts via email.
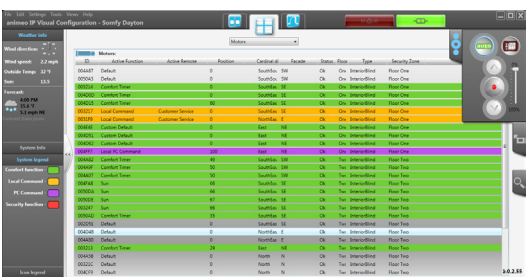
animeo IP/io

Building and Sub Controller

Building Controller

The IP Building Controller is an integrated central hardware and software device for animeo IP/io installations. It provides dynamic solar management by directly controlling Somfy-motorized window coverings and climate information given by a real-time weather station.

Product benefits

- The IP Building Controller provides an intuitive graphical user interface for simple programming, commissioning, operational and system status.
- Automatic discovery of blinds, sensors and local control points.
- No zone limitation; a single window can be a zone.
- Allows configuration and binding of web remotes.
- A system with a Building Controller can control max. 200 motors.
- One Building Controller can connect to 1 x Compact Sensor or 1 x Outside Sensor Box and 2 x Inside Sensor Box.
- Optimised energy savings in conjunction with a wide range of functions: cooling, heating.
- Enhanced operating mode: Increased, room-based user comfort thanks to the suppression of centralised non-safety functions (e.g. sun function) as soon as local controls are used. The system is switched back into automatic mode at freely definable times each day.

Further features

- For larger installations, the IP Building Controller's capacity can be expanded with the addition of an animeo IP Sub Controller .
- RJ45 and spring clamp connectors in case of false connection.
- Suitable for wall-mounting and DIN-rail installation.
- The separation of the Sensor Interface (Outside Sensor Box), which is normally mounted outside, and the control center (Building Controller), which is normally mounted inside, enables extremely cost-effective lightning protection for the system.
- Communication between the Outside Sensor Box and the Building Controller is monitored.
- Extensive yet clear selection of functions and parameters which are specially tailored to the type of end product to be controlled (screens, blinds, roller shutters).
- Sun function with configurable threshold values, delays, position, angled orientation for Venetian blinds, freely defined sensor assignment for each zone.

- Wind safety function in combination with wind direction: to increase the lifetime of the blind elements, they can be moved into a safety position if a certain wind force is reached and if the wind direction is such that the specific zone is affected.
- The blind elements are only moved into the safety position if there are strong winds (gale warning).
- Rain and snow safety function with configurable time delays, both for each zone.

Housing Dimensions (w × h × d)	100 x 175 x 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 240 V AC / 50/60 Hz
Operating temperature	0° C to +45° C

animeo IP/io Building Controller	Ref. 1822314

Sub Controller

The IP Sub Controller expands animeo IP/io installations. An IP Building Controller is essential for integration of an IP Sub Controller. It provides dynamic solar management by directly controlling Somfy-motorized window coverings and climate information given by a real-time weather station.

Product benefits

- The IP Sub Controller utilizes the IP Building Controller's integrated router to interface over an IP backbone to provide a stable connection between all appliances.
- RJ45 and spring clamp connectors for false prove connections.
- Suitable for wall-mounting and DIN-rail installation.
- One Sub Controller can connect to 1 x Compact Sensor or 1 x Outside Sensor Box and 2 x Inside Sensor Box.

Further features

- Allows expansion of the installation and the integration of additional blinds and local control points.
- The IP Sub Controller integrates additional sensors on the real-time weather station.
- Integrated IP switch for simplified connectivity of the additional IP Sub Controllers (pass through).

Housing Dimensions (w × h × d)	100 x 175 x 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100-240 V AC / 50/60 Hz
Operating temperature	0° C to +45° C

animeo IP/io Sub Controller	Ref. 1 860 201

animeo IP/io

Transceiver

USB io Transceiver

The use of the USB io Transceiver is mandatory with every animeo IP/io Building and Sub Controller. The transceiver establishes communication from the IP Building Controller/Sub Controller to the io motors and io local control points.

Product benefits
- Plug and play connection through USB to the IP Building Controller and IP Sub Controller.
- Delivered with pre-installed USB cable.
- Suitable for wall mounted and DIN-rail installations.

Further features
- LED display of sent and received io radio signals.
- Scans 3 frequencies between 868 and 870 MHz and communicates over the most reliable transmission.

Housing Dimensions (w × h × d)	90 x 180 x 45 mm
Degree of protection	IP 20
Protection class	III
Supply voltage	5 V DC via USB 2.0
Operating temperature	0° C to +45° C

USB io Transceiver	Ref. 9 018 682

Sensors and accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

Product benefits

Further features

M8
- 8 sensors to collect the external conditions in 4 different orientations.
- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13
- 13 sensors to collect the external conditions in 8 different orientations.
- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/- 30 %
Operating temperature	-30 °C...+70 °C

Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm
Bracket for Weather Station	Ref. 1 860 320

animeo IP/io

Sensors and accessories

Mounting accessories for Weather station M8/M13

Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335

Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket	Ref. 1 860 336

Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321

Kit Mast with 25 mm adaptor (3 x Mast, 1 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Outside Sensor Box

The Outside Sensor Box is the interface between the weather station and the Building Controller or Sub Controller. All measurement values are evaluated here and sent to the Building Controller. It requires an external 24 V AC/DC power supply.

Product benefits

• All sensors incl. Outside Sensor Box can be fixed to the Sensor Station mast.

• Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor,
1 rain sensor, 1 outside temperature sensor can be connected to the Outside Sensor Box.

Dimensions (w × h × d)	207 × 255 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC / DC
Operating temperature	- 30° C to +70° C

Outside Sensor Box	Ref. 9 001 606

For wall-mounted installation.

animeo Power Supply DC

To supply the Outside Sensor Box (with heated sensors).

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100 %)
	4.5 A (switch on duration 50 %: 3 min on, 3 min off)

animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Lightning protection

To protect the controls from lightning. Used in conjunction with the Outside Sensor Box or Compact Sensor.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706

animeo IP/io

Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2 × 0.8 mm^2

Wind Sensor	Ref. 9 001 608

Heated Wind Sensor

To measure wind speed in connection with the Outside Sensor Box. Recommended for geographical areas with severe winter conditions.

Product benefits

- The turning parts can not get stuck due to ice or snow thanks to integrated thermostat controlled heating.
- Provides reliable and precise wind speed measurement during the winter period.
- High resilience and durability by precision bearing.

Dimensions	Height 190 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm^2

Heated Wind Sensor	Ref. 9 140 180

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

- Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.
- Very good starting value by magnetic contact-free measure principle.
- Winter and offshore usable.
- High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm^2

Wind Direction Sensor	Ref. 9 013 807

animeo IP/io

Sensors and accessories

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Product benefits

- Precise measurement of exterior temperature values which can be displayed in °C or °F in the animeo building control solutions.
- Protective housing to prevent measurements influenced by spiders and birds.
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2×0.8 mm

Outside Temperature Sensor	Ref. 9 001 611

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34×88×47 mm
Degree of protection	IP 44
Wiring recommendations	2×0.8 mm
Angle position	150°

Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard 50 mm diameter mast.
- 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	5 x 1.5 mm²

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly inidcated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station	Ref. 9 013 726

animeo IP/io

Sensors and accessories

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits
- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Dimensions / mast height	3200 mm

Sensor Station extended	Ref. 9 013 727

Inside Sensor Box

For connection to external push buttons or key switches per zone and up to 2 Inside Temperature Sensors.

Product benefits
- Window cleaners need no access to the complete user interface (animeo IP Visual Configuration Software).
- Inside Temperature Sensors enable easy extendability of the system's energy saving options.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to +45° C

Inside Sensor Box	Ref. 9 001 614

For DIN-rail installation, 12 SUs.

Housing for Inside Temperature Sensor

To install inside temperature sensor.

Dimensions (w × h × d)	75 × 75 × 25 mm

Housing for Inside Temperature Sensor	Ref. 9 008 045

Inside Temperature Sensor

To measure the inside temperature.

Inside Temperature Sensor	Ref. 9 008 044

BMS Interface

Provides communication between Building Management Systems and Somfy motorized shading systems over BACnet. Compatible with Radio Technology Systems (RTS), Stand-alone SDN, animeo IP/io and animeo IP/RS485 shade systems.

BACnet *

Product benefits
- RJ45 connector for false prove connections
- LED indicators providing information about the status of the product, the normal operation or a system error.
- Programmable through user-friendly interface.
- Integration capabilities: Modbus, BACnet MS/TP, BACnet IP.
- Auto device discovery for animeo IP.

Dimensions (w × h × d)	115 × 92 × 41 mm
Degree of protection	IP 20
Operating voltage	24 V DC
Operating temperature	0° C to +50° C

BMS Interface	Ref. 1 822 558

* BACnet™ is a trademark of ASHRAE

animeo IP/io

Local wall controls

Smoove 1 io

1 channel on-wall radio transmitter.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +60° C
Operating conditions	Dry living rooms
Radio frequency	865.95 MHz

Pure shine	Ref. 1 800 445
Black shine	Ref. 1 811 003
Silver shine	Ref. 1 811 007
Adapter disk for other switching programs	Ref. 9 016 911

Smoove Origin io

1 channel on-wall radio transmitter.

Dimensions (w × h × d)	50 × 50 × 50 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +60° C
Operating conditions	Dry living rooms
Radio frequency	865.95 MHz

Pure shine	Ref. 1 811 066

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability.

Smoove IB Origin	Ref. 1 811 272

Smoove frames
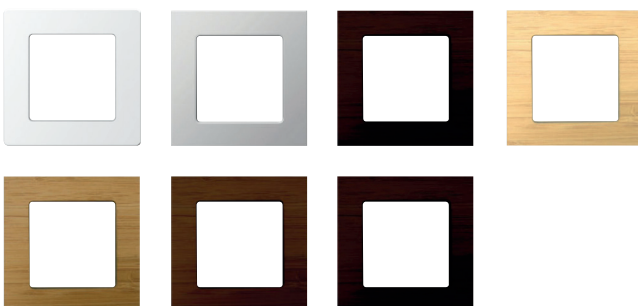
Smoove frames

• **Pure**	Ref. 9 015 022
• **Silver Mat**	Ref. 9 015 025
• **Black**	Ref. 9 015 023
• **Light Bamboo - wood finish**	Ref. 9 015 027
• **Ambergris Bamboo - wood finish**	Ref. 9 015 026
• **Cherry - wood finish**	Ref. 9 015 236
• **Walnut - wood finish**	Ref. 9 015 237
• **Double frame pure**	Ref. 9 015 238

animeo IP/io

Local remote controls

Situo 1 io/Situo 5 io

Pure   Iron   Arctic   Natural

To control 1 io application or 1 group of io applica-
tions.
To control up to 5 io applications or 5 groups of
io applications.

Dimensions (w × h × d)	42 × 139 × 16 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +48° C
Operating conditions	Dry living rooms
Radio frequency	868 MHz +/- 1 KHz

Situo 1 io Pure	Ref. 1 870 311
Situo 1 io Iron	Ref. 1 870 315
Situo 1 io Arctic	Ref. 1 870 323
Situo 1 io Natural	Ref. 1 870 319
Situo 5 io Pure	Ref. 1 870 327
Situo 5 io Iron	Ref. 1 870 331
Situo 5 io Arctic	Ref. 1 870 339
Situo 5 io Natural	Ref. 1 870 335

Situo 1/Situo 5 Variation io

Iron   Pure   Iron   Pure

To control 1 io application or 1 group of io applica-
tions.
To control up to 5 io applications or 5 groups of
io applications.
With scroll wheel for tilting and dimming.

Dimensions (w × h × d)	45 × 140 × 20 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to +48° C
Operating conditions	Dry living rooms
Radio frequency	868 MHz

Situo 1 Variation io Iron	Ref. 1 811 635
Situo 1 Variation io Pure	Ref. 1 811 634
Situo 5 Variation io Iron	Ref. 1 811 636
Situo 5 Variation io Iron	Ref. 1 811 637

Web remote control

Web remote control

Manual user control. Al-
lows control of one blind
or a group of blinds via a
web page from a user's
computer or a smart-
phone.

Product benefits
• Applicable at any time
• Can easily be adapted to the
  user's environment

Further features
• Controls Up/Down position
• Controls slat position
• Displays of blind position
• Overrides automatic func-
  tions

animeo IP web remote license key	Ref. 9 019 244

animeo IP/io

Motors

animeo® COMPATIBLE

Oximo io
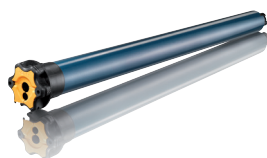
The universal io solution for roller shutters.
Three end limit setting modes: automatic, semi-automatic and manual.

Type of head	Star
Diameter	50 mm
Degree of protection	IP 44
Protection class	I
Supply voltage	230 V AC
Operating temperature	20%: 20 to 70°C / 80%: 10 to 40°C
Speed with load	17 rpm
Limit Switch Unit	Bi-directional radio

Oximo io 6/17 VVF 3M BAR	Ref. 1 032 700
Oximo io 10/17 VVF 3M BAR	Ref. 1 037 689
Oximo io 20/17 VVF 3M BAR	Ref. 1 041 626
Oximo io 15/17 VVF 3M UNIT	Ref. 1 039 589
Oximo io 30/17 VVF 3M BAR	Ref. 1 045 517
Oximo io 40/17 VVF 3M BAR	Ref. 1 049 608

The motors listed above are a selection from the full motor range.
For more details, please contact your local Somfy partner.

Sunea io
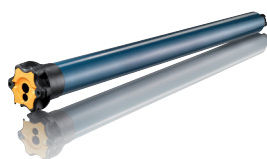
The all-in-one io vertical screen motor with advanced features.
Adjustable electronic stop detection.

Type of head	Star or round
Diameter	50 or 60 mm
Degree of protection	IP 44
Protection class	I
Supply voltage	230 V AC
Operating temperature	20%: 20 to 70°C / 80%: 10 to 40°C
Speed with load	17 rpm
Limit Switch Unit	Electronic

Sunea 50 io 35/17 VVF 3M BAR	Ref. 1 116 230
Sunea 50 io 35/17 VVF 3M PACK100	Ref. 1 116 247
Sunea 50 io 50/12 VVF 3M BAR	Ref. 1 118 171
Sunea 50 io 50/12 VVF 3M PACK100	Ref. 1 118 185
Sunea 60 io 70/17 VVF3M UNIT	Ref. 1 182 211

The motors listed above are a selection from the full motor range.
For more details, please contact your local Somfy partner.

Sunilus io
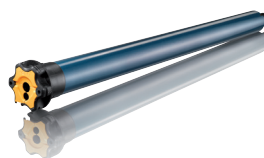
The entry-level io motor dedicated to awnings and vertical screens with no cassette.

Type of head	Star
Diameter	50 mm
Degree of protection	IP 44
Protection class	I
Supply voltage	230 V AC
Operating temperature	20%: 20 to 70°C / 80%: 10 to 40°C
Speed with load	17 rpm
Limit Switch Unit	Electronic

Sunilus io 6/17	Ref. 1 033 312
Sunilus io 10/17	Ref. 1 038 083
Sunilus io 15/17	Ref. 1 040 006
Sunilus SCR S RH IO 6/32	Ref. 1 033 132
Sunilus SCR io 10/17 VVF 3M BAR	Ref. 1 037 935
Sunilus 50 io 35/17 VVF 3M BAR	Ref. 1 047 344
Sunilus 50 io 40/17 VVF 3M BAR	Ref. 1 049 774
Sunilus 50 io 50/12 VVF 3M BAR	Ref. 1 051 407

The motors listed above are a selection from the full motor range.
For more details, please contact your local Somfy partner.

animeo IP/io

Motors

animeo® COMPATIBLE

Sunea Screen io
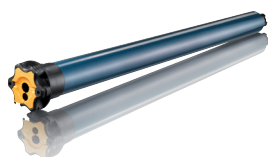
The io motor to suit all types of vertical screens.

Type of head	Star
Diameter	50 mm
Degree of protection	IP 44
Protection class	I
Supply voltage	230 V AC
Operating temperature	20%: 20 to 70°C 80%: 10 to 40°C
Speed with load	17 rpm
Limit Switch Unit	Electronic

Sunea SCR io 6/17 VVF 5M UNIT	Ref. 1 110 202
Sunea SCR io 6/17 VVF 10M BAR	Ref. 1 110 243
Sunea SCR io 10/17 IN BULK	Ref. 1 111 155
Sunea SCR io 10/32 VVF 5M BAR	Ref. 1 111 150
Sunea SCR io 15/32 RH VVF5M BAR	Ref. 1 112 244

The motors listed above are a selection from the full motor range. For more details, please contact your local Somfy partner.

J4 io Protect

io motor dedicated to exterior Venetian Blinds. The shortest EVB motor available on the market. Consisting of a J4 io motor and a J4 io captive plate.

Degree of protection	IP 54 for motor - IP 67 for plate
Protection class	I
Supply voltage	230 V AC
Operating temperature	20%: 20 to 70°C / 80%: 10 to 40°C
Speed with load	24 rpm
Stand-by consumption motor + plate	0.85 W
Limit Switch Unit	Electronic
End-limits	Preset & adjustable up & down end-limit

J406 6/24 io Protect Unit	Ref. 1 210 673
J410 10/24 io Protect Unit	Ref. 1 210 674
J418 18/24 io Protect Unit	Ref. 1 210 675

⚠ Step/Stop functionality using local controls for slat orientation is limited! A short step/stop command for slat orientation can only be executed by pushing an up or down command and then a stop command immediately afterwards. Defined, precise positions for slat orientation can be executed through the web remote.

animeo IP/io

Project example

Functionality required and specified by building owners.

• Requirements for minimum cabling and installation because the building is in use.

• Management per window, group or façade for exterior screens.

• Local control points using radio remote or web remote controls.

• Configuration and us can be monitored and modified remotely.
  The exact position and status of the exterior screens should be visible at any time.

— Power supply
— IP cable

Products installed

animeo IP Building Control-ler io	animeo IP Sub Control-ler io	Sensor Station Extended	animeo IP USB io transceiver	Situo io	Web remote
Ref. 1 822 314	Ref. 1 860 201	Ref. 9 013 727	Ref. 9 018 682	Ref. 1 800 463	Ref. 9 019 244

animeo IP/io
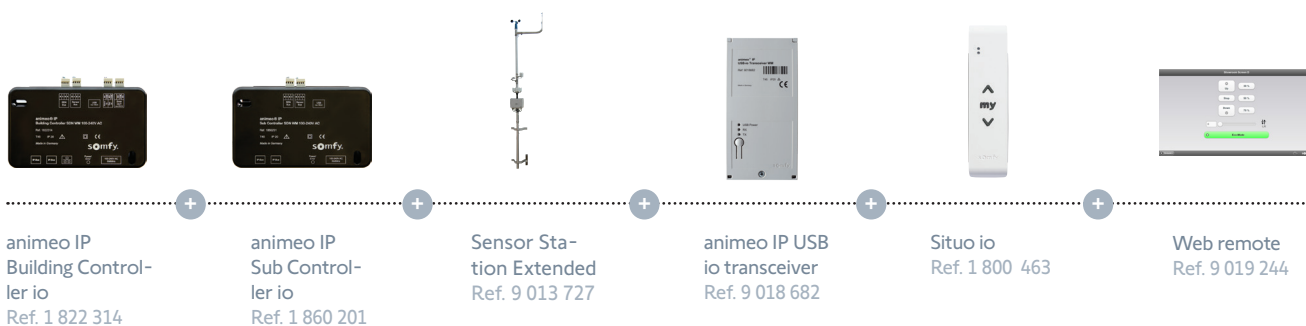
Automatic functions

• Wind safety to protect the exterior screens from damage. Also wind direction dependent.

• Sun automatic including sun tracking to prevent overheating of the building and provide glare control and comfort for the occupants.

• Possibility for the local user to override automatic functions at any time unless safety functions are active.

Installation details

The animeo IP/io Building Controllers and Sub Controllers communicate bi-directionally with the motors through the USB/io Transceiver.
The local radio remote controls also communicate with the USB/io Transceiver.

The connections between motors and local control points are set-up through the animeo IP Visual Configuration Software.

The sensor station is directly linked to the animeo IP/io Building Controller. Each window, group or façade is managed separately depending on the weather conditions and the parameters defined.

1. Sensor Station Extended

2. animeo IP/io Building Controller + USB/io Transceiver

3. animeo IP/io Sub Controller + USB/io Transceiver

4. Maintenance through animeo IP Visual Configuration Software

animeo IP/io

animeo IP/RS485

- System topology
- Benefits
- Products
- Project example

animeo IP/RS485

Dedicated to new medium to large buildings, animeo IP/RS485 is the digital solution that makes it easy to manage your sites.

Thanks to limited wiring and plug and play installation, animeo IP/RS485 reduces wiring errors.

An intuitive user interface allows simplified commissioning, building management and technical support, featuring drag and drop zone creation, motor discovery and at-a-glance system status updates.

System topology

Inside sensors (optional)*

4 x   2 x

Inside Sensor Box

Outside sensors (optional)*

4 x [1]
8 x [2]

Weather Station M8 [1]
Weather Station M13 [2]

OR

Outside sensors (optional)*

8 x   2 x

Outside Sensor Box

Building Controllers

Error output
Central control
Alarm input

animeo IP
Building Controller

for system expansion

animeo IP
Sub Controller

BACnet™ **

Operating options

animeo IP visual
configuration software

RS485 motors

Sonesse 30 RS485

Sonesse 50 RS485

LT50 RS485
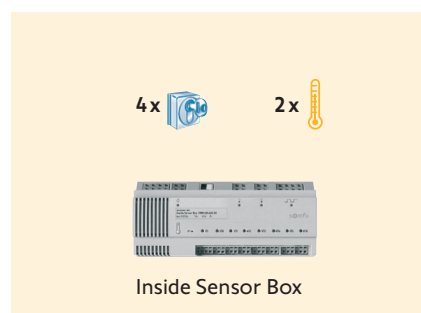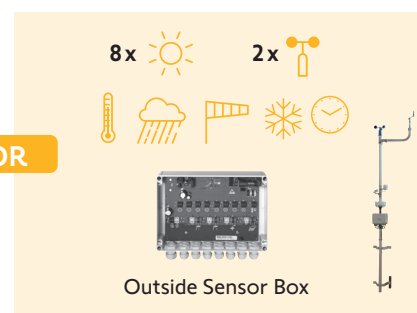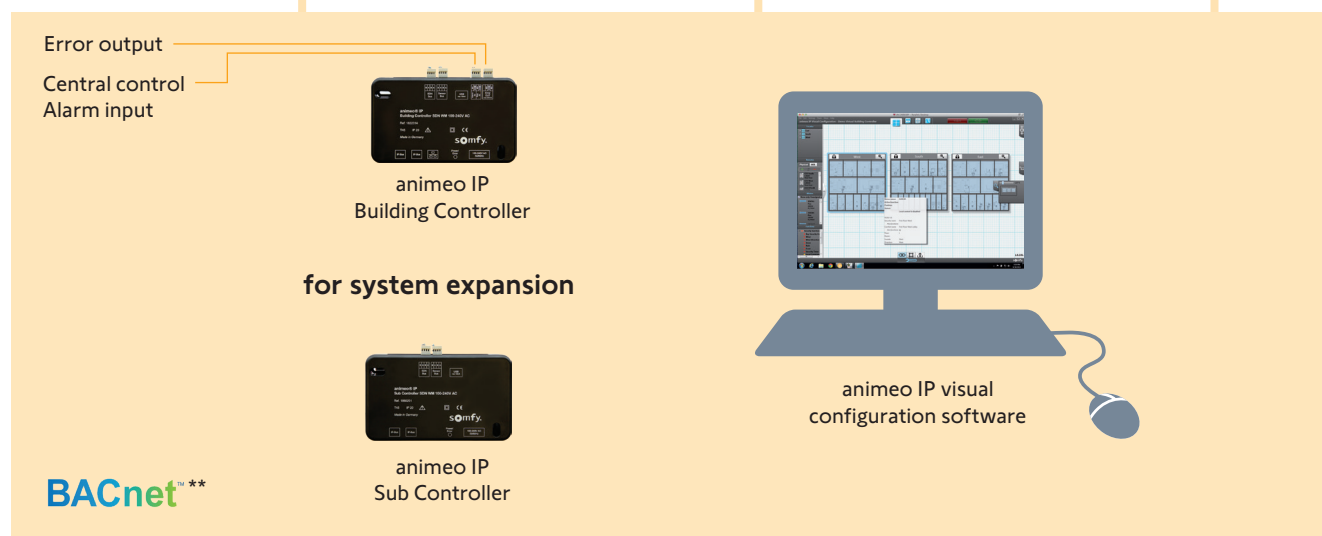
Compatible with local control and web remote

DecoFlex   Web remote
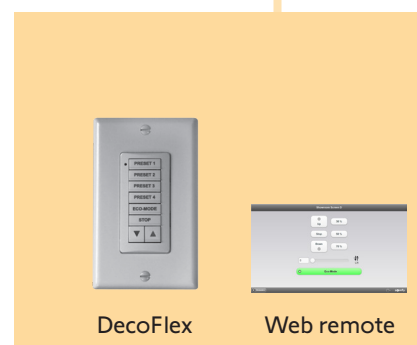
* Per Building Controller/Sub Controller

** BACnet™ is a trademark of ASHRAE

animeo IP/RS485

All benefits at a glance

Real and Astronomic Timed Events

- With animeo IP's timed events feature, schedules can be created to keep buildings energy efficient based on certain times of day. Creating timed events around periods of high occupancy (between 8:00 AM and 6:00 PM, Monday to Friday) and low occupancy (weekends, holidays) ensures the building is running as efficiently as possible.
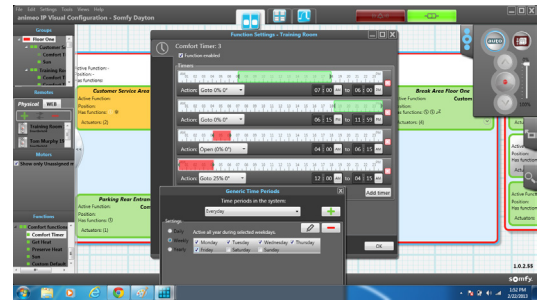
Control Versatility

- Wall-mounted keypads, controls and virtual keypads give occupants control over nearby window coverings. animeo IP can override manual occupant commands during specific time periods (e.g. east façade from 8:00 AM - 12:00 PM) to keep the building running as efficiently as possible, providing just the right balance of manual and automated control.

Facility Manager View

Web remote

DecoFlex

Sun Tracking

- Automates natural light management based on the sun's position and façade direction to minimize glare and maximize the opportunity for daylighting.
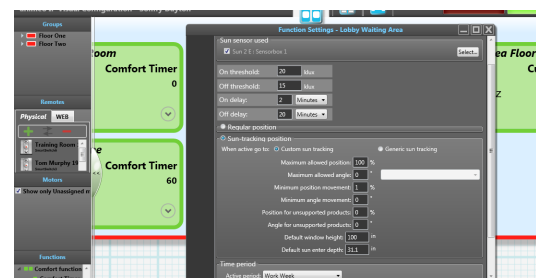
Facility Management

- animeo IP/RS485 technology provides bi-directional status reporting of window covering positions. With this information, animeo IP exports system status snapshots in convenient graph or table form. Quickly see how and why shades were adjusted with simple color codes for timed events, occupant actions or building overrides. Facility managers can also receive system alerts via email.
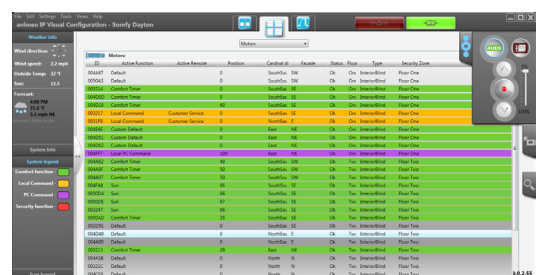
animeo IP/RS485

Building and Sub Controller

Building Controller

The IP Building Controller is an integrated central hardware and software device for animeo IP/RS485 installations. It provides dynamic solar management by directly controlling Somfy-motorized window coverings and climate information given by a real-time weather station.

Product benefits
- The IP Building Controller features an intuitive graphical user interface for simple programming, commissioning, operational and system status.
- Automatic discovery of blinds,sensors and local control points.
- No zone limitation; a single window can be a zone.
- Allows configuration and binding of web remotes.
- A system with a Building Controller can control max. 2000 motors.
- One Building Controller can connect to 1 x Compact Sensor or 1 x Outside Sensor Box and 2 x Inside Sensor Box.
- Optimised energy savings in conjunction with a wide range of functions: cooling, heating.
- Enhanced operating mode: Increased, room-based user comfort thanks to the suppression of centralised non-safety functions (e.g. sun function) as soon as local controls are used. The system is switched back into automatic mode at freely definable times each day.

Further features
- For larger installations, the IP Building Controller's capacity can be expanded with the addition of an animeo IP Sub Controller (ref. 1860201).
- RJ45 and spring clamp connectors in case of false connection.
- Suitable for wall-mounting and DIN-rail installation.
- The separation of the Sensor Interface (Outside Sensor Box), which is normally mounted outside, and the control center (Building Controller), which is normally mounted inside, enables extremely cost-effective lightning protection for the system.
- Communication between the Outside Sensor Box and the Building Controller is monitored.
- Extensive yet clear selection of functions and parameters which are specially tailored to the type of end product to be controlled (Venetian blinds, blinds, roller shutters).
- Sun function with configurable threshold values, time delays, position, angled orientation for Venetian blinds, freely defined sensor assignment for each zone.
- Wind safety function in combination with wind direction: to increase the lifetime of the blind elements, they can be moved into a safety position if a certain wind force is reached and if the wind direction is such that the specific zone is affected.

- The blind elements are only moved into the safety position if there are strong winds (gale warning).
- Rain and snow safety function with configurable time delays, both for each zone.

Housing Dimensions (w × h × d)	100 x 175 x 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 240 V AC / 50/60 Hz
Operating temperature	0° C to +45° C

animeo IP/RS485 Building Controller	Ref. 1822314

Sub Controller

The IP Sub Controller expands animeo IP/RS485 installations. An IP Building Controller is essential for integration of an IP Sub Controller. It provides dynamic solar management by directly controlling Somfy-motorized window coverings and climate information given by a real-time weather station.

Product benefits
- The IP Sub Controller utilizes the IP Building Controller's integrated router to interface over an IP backbone to provide a stable connection between all appliances.
- RJ45 and spring clamp connectors for false prove connections.
- Suitable for wall-mounting and DIN-rail installation.
- One Sub Controller can connect to 1 x Compact Sensor or 1 x Outside Sensor Box and 2 x Inside Sensor Box.

Further features
- Allows expansion of the installation and the integration of additional blinds and local control points.
- The IP Sub Controller integrates additional sensors on the real-time weather station.
- Integrated IP switch for simplified connectivity of the additional IP Sub Controllers (pass through).

Housing Dimensions (w × h × d)	100 x 175 x 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100-240 V AC / 50/60 Hz
Operating temperature	0° C to +45° C

animeo IP/io Sub Controller	Ref. 1 860 201

animeo IP/RS485

Sensors and accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

Product benefits

Further features

M8

- 8 sensors to collect the external conditions in 4 different orientations.

- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13

- 13 sensors to collect the external conditions in 8 different orientations.

- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/- 30 %
Operating temperature	-30 °C...+70 °C

Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm
Bracket for Weather Station	Ref. 1 860 320

Mounting accessories for Weather station M8/M13

Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335

Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket	Ref. 1 860 336

Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321

Kit Mast with 25 mm adaptor (3 x Mast, 1 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Lightning protection

To protect the controls from lightning. Used in conjunction with the Outside Sensor Box or Compact Sensor.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706

animeo IP/RS485

Sensors and accessories

Outside Sensor Box

The Outside Sensor Box is the interface between the weather station, the Building Controller or Sub Controller. All measurement values are evaluated here and sent to the Building Controller.
It requires an external 24 V AC/DC power supply.

Product benefits

- All sensors incl. Outside Sensor Box can be fixed to the Sensor Station mast.
- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor,
  1 rain sensor, 1 outside temperature sensor as well as a DCF plug module can be connected to the Outside Sensor Box.

Dimensions (w × h × d)	207 × 255 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC / DC
Operating temperature	− 30° C to +70° C

Outside Sensor Box	Ref. 9 001 606

For wall-mounted installation.

animeo Power Supply DC

To supply the Outside Sensor Box (with heated sensors).

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100 %)
	4.5 A (switch on duration 50 %: 3 min on, 3 min off)

animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

- Provides reliable and precise wind speed measurement.
- High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2 × 0.8 mm^2

Wind Sensor	Ref. 9 001 608

animeo IP/RS485

Sensors and accessories

Heated Wind Sensor

To measure wind speed in connection with the Outside Sensor Box. Recommended for geographical areas with severe winter conditions.

Product benefits

- Rotating parts cannot stick due to ice or snow thanks to integrated thermostat controlled heating.
- Provides reliable and precise wind speed measurement during the winter period.
- High resilience and durability by precision bearing.

Dimensions	Height 190 mm, ø 240 mm
	max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²

Heated Wind Sensor	Ref. 9 140 180

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

- Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.

- Very good starting value by magnetic contact-free measure principle.
- Winter and offshore usable.
- High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²

Wind Direction Sensor	Ref. 9 013 807

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Product benefits

- Precise measurement of exterior temperature values which can be displayed in °C or °F in the animeo building control solutions.
- Protective housing to prevent measurements influenced by spiders and birds.
- Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2 × 0.8 mm

Outside Temperature Sensor	Ref. 9 001 611

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

- Fast, simple and flexible assembly. Wall assembly or installation on standard 50 mm diameter mast.
- 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	5 x 1.5 mm²

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

animeo IP/RS485

Sensors and accessories

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

- Small unique design to allow integration directly on the external façade.
- Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2 × 0.8 mm
Angle position	150°

Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for exact positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Dimensions / mast height	3200 mm

Sensor Station	Ref. 9 013 726

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits

- Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
- Compass included in delivery for precise positioning of the sensor station.
- Indication of north direction.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station extended	Ref. 9 013 727

Inside Sensor Box

For connection to external push buttons or key switches per zone and up to 2 Inside Temperature Sensors.

Product benefits

- Window cleaners need no access to the complete user interface (animeo IP Visual Configuration Software).
- Inside Temperature Sensors enable easy extendability of the system's energy saving options.

Dimensions (w × h × d)	210 × 90 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to +45° C

Inside Sensor Box	Ref. 9 001 614

For DIN-rail installation, 12 SUs.

animeo IP/RS485

Sensors and accessories

Housing for Inside Temperature Sensor

To install inside temperature sensor.

Dimensions (w × h × d)	75 × 75 × 25 mm
Housing for Inside Temperature Sensor	Ref. 9 008 045

Inside Temperature Sensor

To measure the inside temperature.

Inside Temperature Sensor	Ref. 9 008 044

RS485 Network Power Supply

A component designed to power RS485 Somfy Digital Network devices via the RS485 network segment. Required for the integration of the Decoflex Digital Keypad.

Product benefits

• Power supply with 2 x RJ45 connectors to facilitate wiring (in and out).

Dimensions (w × h × d)	132 × 200 × 72 mm
Degree of protection	IP 20
Operating temperature	0° C to 40° C
Operating voltage	90 V AC - 260 V AC
Output voltage	24 V DC
Output current	1 A
RS485 Network Power Supply	Ref. 9 019 003

BMS Interface

Provides communication between Building Management Systems and Somfy motorized shading systems over BACnet. Compatible with Radio Technology Systems (RTS), Stand-alone SDN, animeo IP/io and animeo IP/RS485 shade systems.

Product benefits

• RJ45 connector for false prove connections
• LED indicators providing information about the status of the product, the normal operation or a system error.

BACnet *

• Programmable through user-friendly interface.
• Integration capabilities: Modbus, BACnet MS/TP, BACnet IP.
• Auto device discovery for animeo IP

Dimensions (w × h × d)	115 × 92 × 41 mm
Degree of protection	IP 20
Operating voltage	24 V DC
Operating temperature	0° C to +50° C
BMS Interface	Ref. 1 822 558

RS485 6 x RJ45 Bridging Adapter

A component designed to facilitate the connection of RS485 Somfy Digital Network devices on the RS485 network segment.

Product benefits

• 6 x RJ45 Bridging Adapter for the wiring of the RS485 Somfy Digital Network devices. Two holes for mounting to a wall or a panel.

Dimensions (w × h × d)	103 × 39,9 × 26,5 mm
RS485 6 x RJ45 Bridging Adapter	Ref. 9 019 004

* BACnet™ is a trademark of ASHRAE

animeo IP/RS485

Sensors and accessories

RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

Product benefits
• Easy plug in RJ45.

Dimensions (w × h × d)	11,7 × 21,5 × 7,9 mm
Operting temperature	– 30° C to +90° C
RS485 Terminator	Ref. 9 019 005

RS485 Setting tool

An intuitive tool for blind makers to set the parameters (e.g. end limits) of the motors before or during installation on site.

Product benefits
• Display with 2 lines (16 characters per line) RJ45

female connector for fast connection.

Dimensions (w × h × d)	117 × 79 × 24 mm
Degree of protection	IP 30
RS485 Setting Tool	Ref. 9 017 142

Web remote control

Web remote control

Manual user control. Allows control of one blind or a group of blinds via a web page from a user's computer or a smartphone.

Product benefits
• Applicable at any time
• Can easily be adapted to the user's environment

Further features
• Control Up/Down position
• Control slat position
• Display of blind position
• Overrides automatic functions

animeo IP web remote license key	Ref. 9 019 244

SDN Configuration tool

The all-inclusive tool for RS485 systems.
The SDN Configuration Tool is a single tool that controls a full façade or building via easy access on site.

Product benefits
• This intuitive tool makes commissioning much easier, from configuration to diagnostic.

Further features
• Setting motor limits and groops.
• Setting switch configurations
• Updating the motor firmware …

For additional information, please contact SOMFY.

animeo IP/RS485

Local wall controls

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability. Operation via the UP, DOWN and STOP buttons is possible at any time.

Smoove IB Origin	Ref. 1 811 272

For flush-mounted installation.
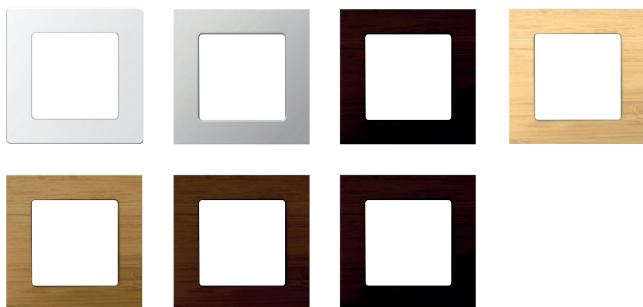
Smoove frames

Smoove frames

• **Pure**	Ref. 9 015 022
• **Silver Mat**	Ref. 9 015 025
• **Black**	Ref. 9 015 023
• **Light Bamboo - wood finish**	Ref. 9 015 027
• **Ambergris Bamboo - wood finish**	Ref. 9 015 026
• **Cherry - wood finish**	Ref. 9 015 236
• **Walnut - wood finish**	Ref. 9 015 237
• **Double frame pure**	Ref. 9 015 238

Decoflex Digital Keypad

A wired RS485 user interface for local control of individual motors or groups of motors. Provides push button on front for up to 8 buttons including up, down, stop, eco mode and presets.

fulfill all commands accessible at the front.

Product benefits

• Configurable button functionality presets.
• Auto-discoverable address and location.
• Interchangeable buttons to match selected preset.
• Single or multi-gang compatible.
• Standard Decora® size.
• Inputs on the back to connect standard switches to

Overall dimensions (without wall plate)	36.51 x 69.85 x 38.10 mm
Degree of protection	IP 20 (mounted)
Protection class	II
Operating temperature	0°C to 45°C
Supply voltage	+24 V DC, supplied by Somfy Digital Network Bus
Stand-by current	9 mA @ 24 V DC
Relative humidity	85 %
Material	Face plates & buttons: Lexan 945U
Weight	65 g
Decoflex Digital Keypad	Ref. 1 811 289

For flush-mounted installation.

animeo IP/RS485

Motors

animeo® COMPATIBLE

Sonesse30 RS485

Somfy quiet digital motorization for small blinds, dedicated to interior applications.

Type of head	Thin
Diameter	28
Degree of protection	IP 30
Protection class	III
Operating temperature	0° C to + 60° C
Supply voltage	24 V DC
Speed with load	Adjustable speed from 6 to 28 rpm
Torque	2 Nm
Limit Switch Unit	Digital

Sonesse30 DC RS485 2/28	Ref. 1 000 658

Sonesse50 RS485

The digital solution with the new acoustic standard for interior blinds.

Type of head	Star
Diameter	47
Degree of protection	IP 44
Protection class	I
Operating temperature	– 20° C to + 60° C
Supply voltage	230, 120, 100 or 220 V AC
Speed with load	17, 28 or 32 rpm
Torque	5 - 15 Nm
Limit Switch Unit	Digital

Sonesse 50 RS485 6/28	Ref. 1 002 382
Sonesse 50 RS485 6/32	Ref. 1 002 286
Sonesse 50 RS485 10/32	Ref. 1 002 287
Sonesse 50 RS485 5/28-32	Ref. 1 002 384
Sonesse 50 RS485 5/32	Ref. 1 002 505

The motors listed above are a selection from the full motor range. For more details, please contact you local Somfy partner

LT50 RS485
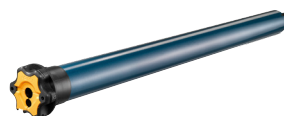
The proven digital 50 mm diameter for blinds and screens.

Type of head	Star
Diameter	47
Degree of protection	IP 44
Protection class	I
Operating temperature	– 20° C to + 60° C
Supply voltage	230, 120, 100 or 220 V AC
Speed with load	17, 20, 32 or 38 rpm
Torque	5 - 35 Nm
Limit Switch Unit	Digital

LT50 RS485 6/32	1 002 494
LT50 RS485 15/32	1 002 495
LT50 RS485 15/38	1 002 427
LT50 RS485 5/32-38	1 002 283
LT50 RS485 18/20	1 002 504

The motors listed above are a selection from the full motor range. For more details, please contact you local Somfy partner

Sonesse50 Ultra AC & DC

The quietest and strongest motor on the market.

	AC	DC
Type of head	Star	Square
Diameter	63	63.7
Degree of protection	IP 31	IP20
Protection class	I	III
Operating temperature	0° C to + 60° C	
Supply voltage	120 V/60 Hz	24 V DC
Speed with load	24 rpm	10 - 25 rpm
Torque	6 Nm	4 Nm
Limit Switch Unit	Electronic	

Sonesse ULTRA 50 RS485	Ref. 1 002 566	Ref. 1 134 022

The motors listed above are a selection from the full motor range. For more details, please contact you local Somfy partner

animeo IP/RS485

Project example

Functionality required and specified by building owners.

• Alignment of defined groups or blinds.

• Management per window, group or façade for interior screens.

• Local control points through local control or web remote.

• Configuration and maintenance can be monitored and modified remotely.
  The exact position and status of the interior screens should be visible at any time.

— Power supply
— Motor cable

Products installed

| animeo IP Building Controller io Ref. 1 822 314 | animeo IP Sub Controller io Ref. 1 860 201 | Sensor Station Extended Ref. 9 013 727 | DecoFlex Ref. 1 811 289 | Web remote Ref. 9 019 244 |

animeo IP/RS485

Automatic functions

- Alignment of blinds when the building is not occupied.

- Sun automatic including sun tracking to prevent overheating of the building and provide glare control and comfort for the occupants.

- Possibility for the local user to override automatic functions at any time unless safety functions are active.

Installation details

The animeo IP/RS485 Building Controllers and Sub Controllers are communicate bi-directionally with the motors.
The local controls also communicate with the system.

The connections between motors and local control points are set up through the animeo IP Visual Configuration Software.

The sensor station is directly linked to the animeo IP/RS485 Building Controller. Each window, group or façade is managed separately depending on the weather conditions and the parameters defined.

1. Sensor Station Extended

2. animeo IP/RS485 Sub Controller

3. animeo IP/RS485 Building Controller

4. Maintenance through animeo IP Visual Configuration Software

animeoKNX®

- System topology

- Benefits

- Products

- Project example

animeo KNX

Adaptable façade management system compatible with KNX standards.
Multifunctional Motor Controller to control all types of blinds and window coverings.
Local wired switches and Somfy RTS remote controls can be integrated with to the KNX bus using binary inputs.

System topology

Building Controller | 1-8 zones
NEW

Weather Station KNX

Timer KNX

KNX BUS
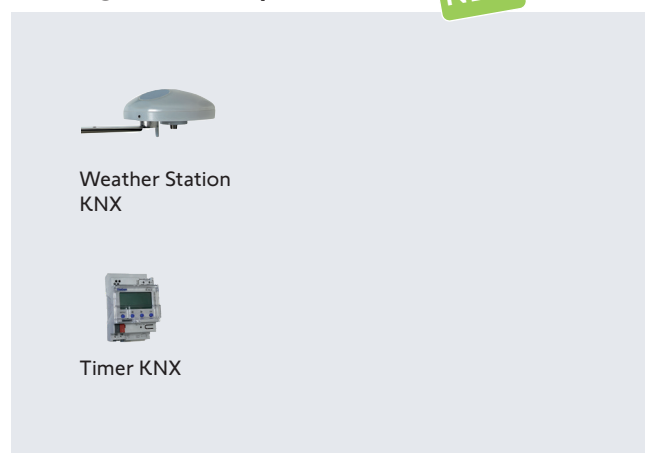
Building Controllers | 1-16 zones

Max 8× Max 2×

KNX Operating software

Weather Station M8/M13

Master Control W8
8×

Master Control W2
2×

Local control options

Push button input

my

Universal binary input

my

Local radio control or radio control via KNX

my

RTS
Radio Technology Somfy®

KNX

Motor Controllers

KNX RS485 interface

Wall mounted for 230 V motors

DIN rail for 230 V motors

Wall mounted for 24 V motors

Wall mounted for 24 V motors with Encoder technology

KNX RTS Receiver 433 MHz WM

Motor Controller 6 AC KNX

Pluggable radio modules

Radio Receiver

KNX RTS Receiver

EnOcean Receiver 868 MHz

KNX EnOcean Receiver 868 MHz

Benefits

Intuitive animeo KNX Operating Software

- Simplified programming of all functions, such as wind direction and sun-tracking.

Wind direction measurement

- The blinds move up into the security position only when the façade is affected by wind speed, depending on wind direction. All other areas of the façade remain shaded. In the event of a storm, the blinds on all façades move up.

Wind direction and wind speed

Weather Station M13

Zone based daylight/shadow tracking

- animeo KNX guarantees optimum lighting management, glare protection, and better viewing comfort. This saves energy spent on artificial lighting and improves the lighting conditions in the room. Shadows on the building façade can be taken into account for a defined zone to maximise the use of natural light.

Energy savings through

- Solar gains from the sun in winter when occupants are absent.
- Diminished slat-turn angles and reduced cooling requirements in summer.
- Intelligent wind protection controlled using only façades affected by the wind In all other façade zones, the blinds remain in the sun protection position and thus reduce the load for cooling.
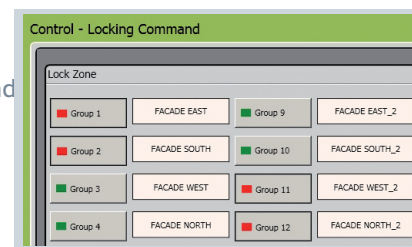
Functions integrated with other systems

- Other applications such as lighting, heating, cooling, can be integrated.

High levels of user comfort

- All blinds can be operated locally. The user is able to override the automatic function.

More functions

- Individual sun protection control per façade and thus improved working conditions in every room.
- Sensors can be used in multiple ways.
- All types of blinds and façade elements can be controlled. 19 different blind and façade elements are available.
- Manual override of automatic orders possible at a room level.

Wall-mounted Motor Controller

Din-rail Motor Controller

Compatible with all installation environments

Building Controller

Weather Station KNX

NEW

The Weather Station KNX is a building controller with advanced function-alities to manage 8 façade areas and all types of blinds.

Product benefits

- Automatic sun protection algorithm (sun tracking) to optimize occupants' comfort.
- Multiple security sensors to protect the installation
- Energy optimisation by measuring the global radiation.
- 4 brightness sensors in 4 orientations and sensors for twilight, wind speed and wind direction, rain, absolute and relative humidity, temperature, global radiation.
- Integrated heating

Further features

- Compact design discrete on façade or roof.
- Integrated KNX bus coupling unit.
- Software logic modules for linking events.

Dimensions (Ø/h)	130 mm/68 mm
Degree of protection	IP 44
Protection class	III
Supply voltage	24 V
Operating temperature	−30° C to + 60° C

Weather Station KNX	Ref. 1 870 932

Shadow Device

The KNX Shadow Device stores the relevant data which is derived from building model provided through Somfy. It is essential in conjunction with the animeo KNX Master Control to realize zone based shadow tracking for buildings.

Product benefits

- The device is provided with a shadow data base which is derived from a building model created through Somfy service and expertise.
- The calculated shadow zones can easily be assigned to the façade zones defined in the animeo KNX Master Control.
- A maximum of 5 animeo KNX Master Control units can be linked to one KNX Shadow Device providing 80 shadow zones.
- Connects easily through standard RJ45 network connector to the animeo KNX Master Control.

Further features

- Intuitive network configuration (IP) through a Somfy web page.
- The shadow data base can simply be uploaded through an USB port.

Dimensions (w × h × d)	100 × 175 × 50 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 240 V AC / 50/60 Hz
Operating temperature	−0° C to + 45° C

Shadow Device KNX	Ref. 1 860 252

⚠ The implemented shadow data base which is derived from a model created through Somfy service and expertise will be invoiced with a separate fee in addition to the Shadow Device. The amount of this fee depends on the size of the building and the Somfy service and expertise. The Somfy service and expertise is responsible for supplying the shadow data base.

Building Controller

KNX Master Control W2/W8

Ref. 1 860 187

Ref. 1 860 193

The animeo KNX Master Control W2/W8 is a build-ing controller which ena-bles a zone-based shadow tracking of 16 or more façade areas for a selec-tion of 19 different types of blinds.
The configuration of the façade areas is realized with the animeo KNX Operating Software which reduces the commissioning time.

- The status of the façades can be called up from memory and the set values, by using a password, can be changed in the menu by the user without prior ETS knowledge.

Further features

- All safety functions (wind speed, wind direction, rain, snow, frost, ice, outside temperature) are sent cyclically on the bus.
- Using one wind direction sensor, multiple individual wind speed sensors on the façade can be avoided.
- For each of the 16 façades, individual response and delay times can be configured for all available functions.
- Sun tracking for each zone depending on the sun's elevation and azimuth can be configured in the user software.
- The entire configuration of the sun protection control centre is performed using a user-friendly Windows interface.
- Individual façades can be controlled over the operating user interface.
- For maintenance purposes it is possible to block single fa-çades or the complete building over the user interface.

Dimensions (w × h × d)	180 × 182 × 110 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V AC
Operating temperature	0° C to + 55° C

KNX Master Control W2	Ref. 1 860 187

For wall-mounted installation. For 2 wind speed sensors

Dimensions (w × h × d)	180 × 254 × 110 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V AC
Operating temperature	0° C to + 55° C

KNX Master Control W8	Ref. 1 860 193

For wall-mounted installation. For 8 wind speed sensors

Product benefits

- The orientation direction of the façades is taken into account in the building's own precise shadow and in the shadow cast by opposite buildings.
- A maximum of 5 animeo KNX Master Control units can be linked to one KNX shadow device, providing 80 shadow zones.
- Optimisation of energy consumption through automatic protection of over-heating. In cold weather conditions, sun-light is utilised as a natural source of energy.
- The animeo KNX Operating Software can be used inde-pendently of the ETS programming tool.
- The Somfy service includes full preparation of the proj-ect-related shadow model, as well as expert consultation.
- The weather station (IP 65) is able to define 2× (W2) or 8× (W8) wind speed, wind direction, rain, snow, frost, ice, out-side temperature and 8× sun zones.
- The animeo Compact Sensor can ideally be applied for the façade orientations.
- Indoor temperature values can be defined and assigned to zones to gain maximum energy savings.
- Weekly and annual timers are also included and can be inte-grated freely on the KNX bus.
- Automatic functions can be allocated by the user selectively and can be overriden.
- Monitoring of all weather data for energy optimation.
- All real values can be sent to the KNX bus and viewed at the same time via the Windows graphical user interface on the PC.

Motor Controller

KNX 4 AC Motor Controller

For roller shutters, screens, exterior Venetian blinds and windows.
To control 4 × 230 V AC motors.

Product benefits

• Cost savings through use of 8 freely-definable binary inputs.

• Upgradable for local operation by radio.

• User-friendly and intuitive parameter settings in the ETS software.

• Intelligent switching between manual and automatic operation to guarantee excellent user-friendliness and energy savings.

• Extendability: extendable at any time with the animeo RTS radio module. Without any additional wiring investment, 4 motors can be controlled individually or in a group by radio using the Somfy RTS Technology.

• Through the animeo KNX RTS Radio Receiver (Ref. 1 860 191) signals can be linked to the KNX bus.

• Two different safety positions freely definable for each individual motor output.

• Safety position after mains voltage return freely definable.

• Automatic cascading of the outputs with mains voltage return and bus safety function to minimise current peaks.

• The device can be used "out of the box", without requiring programming with the ETS software.

• Mixed systems: in contrast to Motor Controllers based on the Somfy Controlling Technology, with KNX different motor types can be connected to one Motor Controller device (e. g. for Venetian blinds, screens, windows).

• Advanced operating mode: greater user comfort through local disabling of non-security commands (e. g. sun) as soon as local operation is assigned. At a defined time, the system switches back to automatic again.

Further features

• Position feedback per motor output during movement and when reaching the top and bottom end position.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Operating temperature	0° C to + 45° C
Output voltage	230 V AC
Max. current consumption	max. 3.15 A per output

KNX 4 AC Motor Controller WM	Ref. 1 860 114

For wall-mounted installation.

Dimensions (w × h × d)	210 x 90 × 61 mm

KNX 4 AC Motor Controller DRM	Ref. 1 860 116

For DIN-rail installation.

KNX 4 DC Motor Controller

For interior blinds, interior Venetian blinds and windows.
To control 4 × 24 V DC motors. External 24 V DC power supply required (see accessories).

Product benefits

• Cost savings through use of 8 freely-definable binary inputs.

• Clear, self-explanatory ETS index cards.

• Configurable slat tilting speed for optimum user ergonomics.

Further features

• Output protected through current detection.

Dimensions (w × h × d)	255 × 180 × 61 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	240 V DC
Operating temperature	0° C to + 45° C
Output voltage	24 V DC
Max. current consumption	max. 2,1 A per output

KNX 4 DC Motor Controller WM	Ref. 1 870 452

For wall-mounted installation.

Motor Controller

Motor Controller 6 AC KNX
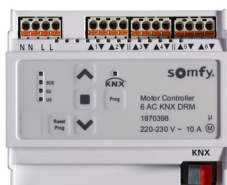
Motor Controller for electrical cabinet (DRM). Compatible with exterior Venetian blinds, screens, roller shutters, windows openers and with all ani-meo KNX devices.

Product benefits

- Modern push-in CAGE CLAMP® connectors for any wire type (flexible or rigid cable) for any cable connection on the device.
- 6 individual motor outputs (motors neutral and safety wires (earth) connected on the electrical cabinet).
- Push-button on the device to validate the motor wiring direction.

Further features

- Status feedback through LEDs.
- The shadow data base can simply be uploaded through an USB port.
- Access for software updates in case of functional evolution.

Dimensions (w × h × d)	108 x 90 x 60 mm
Degree of protection	IP 20
Protection class	II
Supply voltage	100 - 230 V AC / 50/60 Hz
Operating temperature	-5° C to + 50° C

Motor Controller 6 AC KNX	Ref. 1 870 398

KNX / RS485 Motor Controller

KNX RS485 Motor Controller WM

KNX RS485 Motor Controller enables the controlling of up to 18 motors. The motors can be controlled either individually or by groups.

Further features
• With the Somfy SDN configuration software the motor settings can be done before configuring via ETS software.
• Perfect alignment of the blind thanks to the increment encoder technology of the RS485 motors.
• The exact position of the blind during move and when reaching the upper and lower end limits can be monitored.
• Using dedicated Byte telegram both for switches and/or automatic commands, the blind can be moved to numerous intermediate positions.

RS485 motors can be connected to the RS485 Bridging Adapter, ref. 9019004. Different motor types can be used.

Product benefits
• Flexible installation: suspended ceiling/raised floor, under-window or wall-mounted wiring channels.
• Quick installation and connection of the motor controller through:
> Plug and play solution.
> Cable tension relief points to tighten cables to the housing of the product

Dimensions (w × h × d)	90 × 180 × 45 mm
Degree of protection	IP 20
Protection class	III
Operating voltage	24 V DC
Operating temperature	- 5° C to + 50° C
Nominal current consumption KNX bus	<= 12.5 mA DC

KNX RS485 Motor Controller WM	Ref. 1 860 286

For wall-mounted installation.

RS485 6 x RJ45 Bridging Adapter

A component designed to facilitate the connection of RS485 Somfy Digital Network devices on the RS485 network segment.

Product benefits
• 6 x RJ45 Bridging Adapter for the wiring of the RS485 Somfy Digital Network devices. Two holes for mounting to a wall or a panel.

Dimensions (w × h × d)	103 × 39,9 × 26,5 mm

RS485 6 x RJ45 Bridging Adapter	Ref. 9 019 004

DIN-rail adapter

For installation on 35 mm DIN-rail to mount circuit board versions CD 1 × 1 P6, CD 2 × 1 P6, CD 1 × 4 P6, animeo 1 AC/2 AC Motor Controller PCB.

Dimensions (w × h × d)	70 × 105 × 23 mm

DIN-rail adapter	Ref. 9 008 049

For 35 mm DIN-rail, colour; black, 4 SUs

animeo KNX

KNX / RS485 Motor Controller

- Perfect alignment
- Numerous intermediate positions
- Precise motor positioning feedback
- Precise façade design
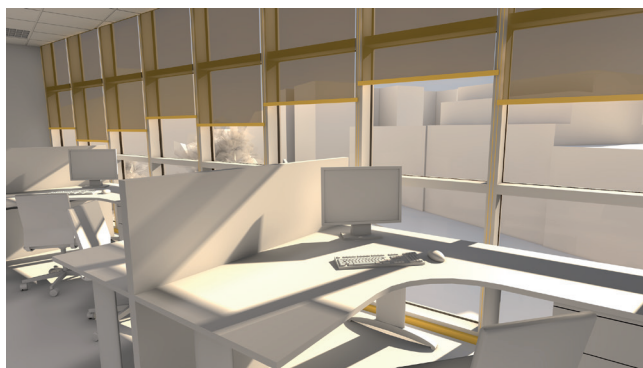
With standard motor
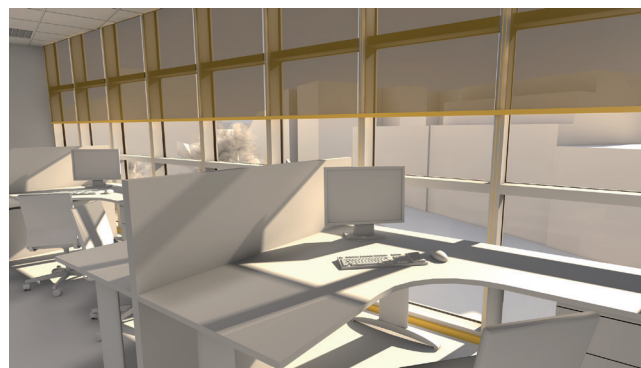
With the digital RS485 motor

230 V

OR

24 V

Interior/exterior screens

RS 485

Plug and play RJ45 connector to integrate the motor data wire

Housing suitable for any kind of installation: wall-mounted, DIN-rail, suspended ceiling, cable channel

Cable tension relief points

KNX bus

Accessories

RTS Radio Receiver

Radio for retrofitting KNX 4 AC, 4 DC or 4 DC/DC-E Motor Controllers. Directly pluggable into the Motor Controller.

Dimensions (w × h × d)	52 × 92 × 27 mm
Protection class	II
Supply voltage	5 V DC, from animeo KNX Motor Controller
Operating temperature	0° C to + 45° C
Radio frequency	433 MHz
Radio range	20 m through 2 walls
Degree of protection	IP 20

KNX RTS Receiver	Ref. 1 860 105

KNX RTS Receiver

Radio receiver for forwarding the Somfy RTS radio signals to the KNX bus.

Product benefits

- Economical radio operation for KNX.
- No additional bus subscriber (physical address).
- Pluggable into existing animeo KNX Motor Controller.
- Selection of usual applications such as Venetian blinds, light switch/dimming, scene call-up.
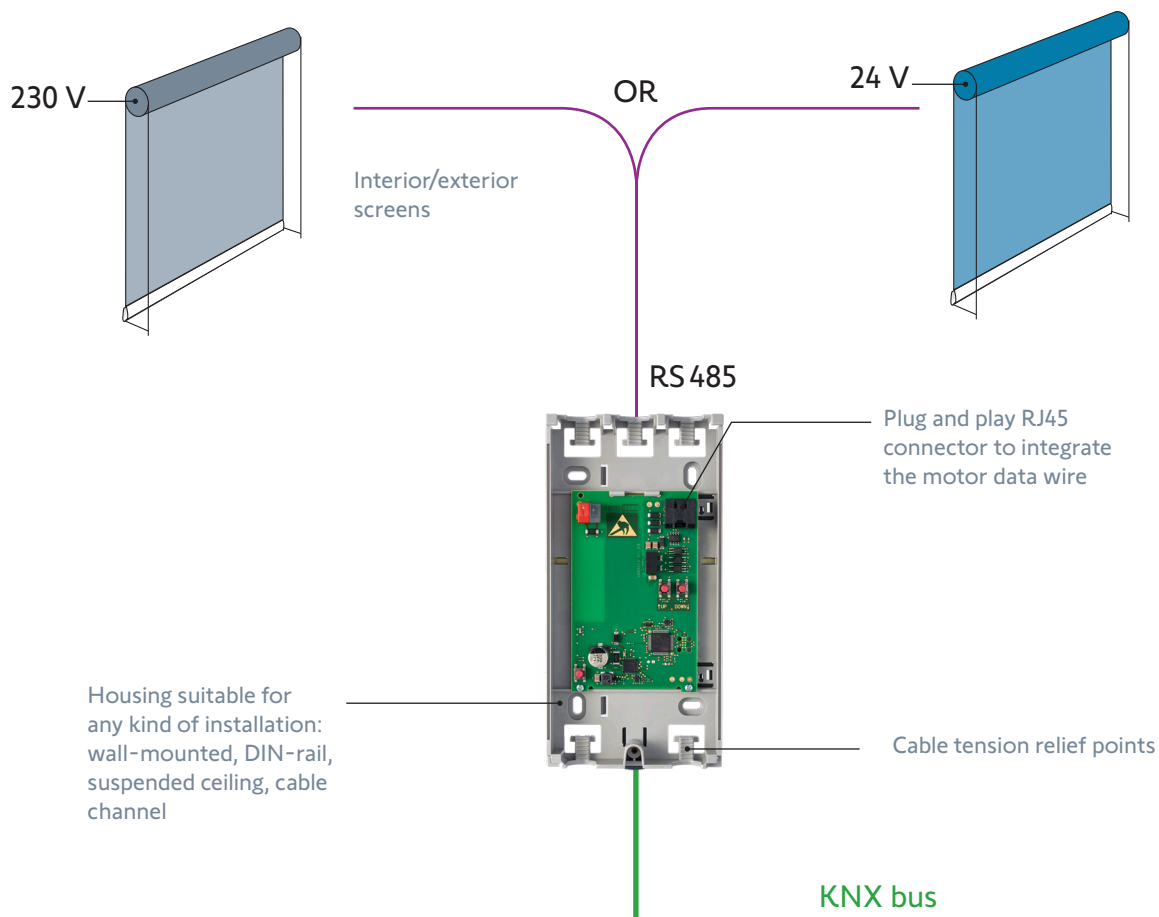- Comfortable operation using scroll wheel with Modulis handheld sender — ideal for Venetian blinds and dimming lights.

Further features

- Up to 5 universal radio channels.
- Application per radio channel freely defineable (Venetian blinds, switching, turning Venetian blinds slowly).
- Up to 4 Somfy RTS sender addresses per radio channel can be learned.

Dimensions (w × h × d)	52 × 92 × 27 mm
Protection class	II
Supply voltage	5 V DC, from animeo KNX Motor Controller
Operating temperature	0° C to + 45° C
Radio frequency	433 MHz
Radio range	20 m through 2 walls
Degree of protection	IP 20

KNX RTS Receiver	Ref. 1 860 191

EnOcean Receiver 868 MHz

An EnOcean radio receiver to interwork with EnOcean switches PTM200, PTM210. Enables shading systems in buildings to be linked up with the battery-free, wireless EnOcean radio technology. Compatible with all animeo KNX Motor Controllers.

Product benefits

- Refurbishment is especially economical since it can be performed in very little time and without installation work.
- Can be inserted into animeo KNX Motor Controllers at any time.
- The receiver can be combined with the battery-free, wireless EnOcean radio switch module PTM200, PTM 210.

Further features

- Simple and intuitive learning process of EnOcean switch module PTM200, PTM210 to the animeo EnOcean Receiver.
- Individual and group control of motor outputs freely definable.
- Priority management between local and central commands directly on the device or through different operation modes.

animeo KNX

KNX EnOcean Receiver 868 MHz

An EnOcean radio receiver for forwarding the EnOcean radio signals on the KNX bus. Available for all animeo KNX Motor Controllers.

Product benefits

- Economic radio operation for KNX.
- No additional bus subscriber (physical address).
- Pluggable in existing animeo KNX Motor Controller.
- Selection of usual applications such as Venetian blinds, light switch/dimming, scene call-up.
- The receiver can be combined with the battery-free, wireless EnOcean radio switch module PTM 200, PTM 210.

Further features

- Up to 5 universal radio channels.
- Application per radio channel freely definable (Venetian blinds, switching, turning Venetian blinds slowly).
- Up to 4 remotes per radio channel can be learned-in.

Dimensions (w × h × d)	60 × 16 × 46 mm
Protection class	II
Supply voltage	5 V DC, from animeo KNX+ Motor Controller
Operating temperature	0° C to + 45° C
Radio frequency	868 MHz
Radio range	20 m through 2 walls
Degree of protection	IP 20

EnOcean Receiver 868 MHz	Ref. 1 860 229

KNX RTS Receiver 433 MHz WM

Universal radio receiver to forward orders from Somfy RTS transmitters to the KNX bus for the integration with any application. The receiver enables the controlling of shades, any switch function, lighting and dimming or HVAC. It is simply powered over the KNX bus network.

Product benefits

- Enables control of all types of solar shadings and other applications (switch functions, lighting and dimming, HVAC) via the same remote control.
- Up to 10 universal radio inputs with max. 5 transmitters per input. The application per radio in input is freely defineable.

Further features

- Suitable for visible or non visible wall-mounting environments and on flush-mounted boxes.
- Somfy RTS transmitters can easily be trained in via a display independent of the ETS software.
- The device is powered over the KNX bus network.

Dimensions (w × h × d)	81 × 81 × 25 mm
Protection class	II
Supply voltage from KNX bus	KNX voltage 21 ...32 V DC, SELV
Operating temperature	−5° C to + 50° C
Radio frequency	433 MHz
Radio range	20 m through 2 walls
Degree of protection	IP 20

KNX RTS Receiver 433 MHz WM	Ref. 1 860 292

animeo KNX®

Accessories

Weather Station M8/M13

To collect the external conditions in different orientations.
For façade and roof mounting

Product benefits   **Further features**

M8

- 8 sensors to collect the external conditions in 4 different orientations.

- 4 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

M13

- 13 sensors to collect the external conditions in 8 different orientations.

- 8 Lux sensors for glare control and natural light management.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed, wind direction and rain to protect external shades or blinds.

Dimensions (h, Ø)	105 mm, 103 mm
Degree of protection	IP44 in working position
Protection class	III
Operating voltage	24 V DC + 10 %/- 30 %
Operating temperature	-30 °C...+70 °C

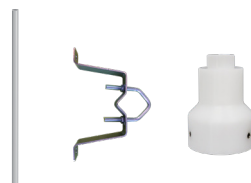|	
Weather Station M8	Ref. 1 860 306
Weather Station M13	Ref. 1 860 307

Bracket for Weather Station M8/M13

For mounting on an already existing mast with a diameter of 50 mm.

Dimensions (w × h × d)	180 x 80 x 80 mmm

Bracket for Weather Station	Ref. 1 860 320

Mounting accessories for Weather station M8/M13

Metallic Mast (1 m) for roof mounting with Somfy accessories.

Dimensions (h, Ø)	1 m, 50 mm
Metallic Mast (Minimum order quantity = 3)	Ref. 1 860 335
Dimensions (w x d x h)	200 x 90 x 30 mm
Wall Mount Bracket	Ref. 1 860 336
Dimensions (h, Ø)	90 mm, 25/50 mm
Mast Adaptor for Weather Station	Ref. 1 860 321
Kit Mast with 25 mm adaptor (3 x Mast, 1 x Brackets, 1 x Adaptor)	Ref. 9 027 035

Lightning protection

To protect the controls from lightning. Used in conjunction with the Outside Sensor Box or Compact Sensor.

24V Lightning Protection	Ref. 9 025 707
Bus Lightning Protection	Ref. 9 025 706

Sensors and accessories

Weather Station KNX

NEW

The Weather Station KNX is a building controller with advanced function-alities to manage 8 façade areas and all types of blinds.

Product benefits
- Automatic sun protection algorithm (sun tracking) to optimize occupants' comfort.
- Multiple security sensors to protect the installation
- Energy optimisation by measuring the global radiation.
- 4 brightness sensors in 4 orientations and sensors for twilight, wind speed and wind direction, rain, abso-

lute and relative humidity, temperature, global radiation.
- Integrated heating

Further features
- Compact design discrete on façade or roof.
- Integrated KNX bus coupling unit.
- Software logic modules for linking events.

Dimensions (Ø/h)	130 mm/68 mm
Degree of protection	IP 44
Protection class	III
Supply voltage	24 V
Operating temperature	−30° C to + 60° C

Weather Station KNX	Ref. 1 870 932

animeo Power Supply DC

To supply the Outside Sensor Box (with heated sensors), the animeo KNX Master Control W2/W8.

Dimensions (w × h × d)	130 × 180 × 61 mm
Degree of protection	IP 20
Protection class	II
Operating voltage	230 V AC
Output current	2.5 A (switch on duration 100 %) 4.5 A (switch on duration 50 %: 3 min. on, 3 min. off)

animeo Power Supply DC	Ref. 1 860 093

For wall-mounted and DIN-rail installation.

Outside Sensor Box

The Outside Sensor Box is the interface between the weather station and the animeo KNX Master Control W2 / W8. All measurement values are evaluated here and sent to the animeo KNX Master Control W2 / W8. It requires an external 24 V AC/DC power supply.

Product benefits
- Convenient lightning protection — only two cables (power supply 24 V AC/DC and data cable) need to be laid to the outside.

Further features
- All sensors incl. Outside Sensor Box can be fixed to the Sensor Station mast.
- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor.

Dimensions (w × h × d)	235 × 207 × 90 mm
Degree of protection	IP 44
Protection class	III
Operating voltage	24 V AC/DC
Operating temperature	−30° C to + 70° C

Outside Sensor Box	Ref. 9 001 606

For wall-mounted installation.

Sensors and accessories

Wind Sensor

To measure wind speed in connection with the Outside Sensor Box.

Product benefits

• Provides reliable and precise wind speed measurement.

• High resilience and durability by precision bearing.

Dimensions	Height 200 mm, ø 240 mm max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	2 × 0.8 mm²

Wind Sensor	Ref. 9 001 608

Heated Wind Sensor

To measure wind speed in connection with the Outside Sensor Box. Recommended for geographical areas with strong winter periods.

Product benefits

• Rotating parts cannot stick due to ice or snow thanks to integrated thermostat controlled heating.

• Provides reliable and precise wind speed measurement during the winter period.

• High resilience and durability by precision bearing.

Dimensions	Height 190 mm, ø 240 mm max. ø-mast 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²

Heated Wind Sensor	Ref. 9 140 180

Wind Direction Sensor

To measure wind direction in connection with the Outside Sensor Box.

Product benefits

• Minimises the number of individual wind speed sensors installed to improve the façade aesthetics.

• Very good starting value by magnetic contact-free measure principle.

• Winter and offshore usable.

• High resilience and durability by precision bearing.

Dimensions	Height 303 mm, Arrow length 515 mm, max. ø-mast: 48 mm
Degree of protection	IP 54
Wiring recommendations	5 × 1.5 mm²

Wind Direction Sensor	Ref. 9 013 807

Outside Temperature Sensor

To measure exterior temperatures in conjunction with the Outside Sensor Box.

Further features

• Precise measurement of exterior temperature values which can be displayed in °C or °F in the KNX Master Control W2/W8 solution.

• Protective housing to prevent measurements influenced by spiders and birds

• Delivered with solar radiation sensor protective housing.

Dimensions	Height 150 mm, ø 115 mm
Degree of protection	IP 65
Wiring recommendations	2 × 0.8 mm

Outside Temperature Sensor	Ref. 9 001 611

Sensors and accessories

Rain Sensor Ondeis

Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing.
24 V DC and 230 V AC version available.

Product benefits

• Fast, simple and flexible assembly. Wall assembly or installation on standard 50 mm diameter mast.
• 24 V DC power supply provided directly through the Outside Sensor Box (ref. 9001606).
• Delivered with a 2.30 m cable (2 x 0.75 mm²).

Dimensions (w × h × d)	115 × 100 × 85 mm
Degree of protection	IP 44
Wiring recommendations	3 × 1.5 mm

Rain Sensor Ondeis 24 V DC	Ref. 9 016 344
Rain Sensor Ondeis 230 V AC	Ref. 9 016 345

Sun Sensor

Sun sensor to measure luminosity in connection with the Outside Sensor Box.

Product benefits

• Small unique design to allow integration directly on the external façade.
• Spring clamp connectors for save and solid wiring to the Outside Sensor Box.

Dimensions (w × h × d)	34 × 88 × 47 mm
Degree of protection	IP 44
Wiring recommendations	2 × 0.8 mm
Angle position	150°

Sun Sensor (without mounting brackets)	Ref. 9 050 100
Mounting brackets for Sun Sensor	Ref. 9 127 888
Kit Sun Sensor incl. brackets	Ref. 9 154 043

Sensor Station

The Sensor Station consists of an aluminium mast with pre-mounted and pre-wired Outside Sensor Box, 4 sun sensors, 1 wind sensor and 1 outside temperature sensor. The Sensor Station can be equipped with additional sensors such as sun sensors and a rain sensor. Wall brackets included.

Product benefits

• Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
• Compass included in delivery for exact positioning of the sensor station.
• Indication of north direction.
• Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Dimensions/mast height	3200 mm

Sensor Station	Ref. 9 013 726

Sensor Station extended

The Sensor Station extended consists of an aluminum mast with a pre-mounted and pre-wired Outside Sensor Box, 8 sun sensors, 1 wind speed sensor, 1 wind direction sensor, a rain sensor and an outside temperature sensor.

Product benefits

• Reduced installation time thanks to pre-mounted construction components and pre-wired individual sensor devices.
• Compass included in delivery for exact positioning of the sensor station.
• Indication of north direction.
• Position of pre-mounted and pre-wired sun sensors is clearly indicated for exact façade orientation.

Dimensions / mast height	3200 mm

Sensor Station extended	Ref. 9 013 727

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System accessories

KNX IP Interface

The KNX/IP-Interface is used to connect a PC to the KNX network. The connection is made over the LAN (IP).
The IP address can be obtained by a DHCP server or by manual configuration (ETS) respectively.

Dimensions (w × h × d)	18 × 90 × 56 mm (1 SU)
Degree of protection	IP 20
Protection class	III
Operating temperature	– 5° C to + 45° C
Supply voltage	External supply 12 – 24 V AC / 12 – 30 V DC Alternative: power – over Ethernet
Power consumption	< 800 mW

KNX IP Interface	Ref. 9 018 246

RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

Product benefits

• Easy plug in RJ45.

Dimensions (w × h × d)	11,7 × 21,5 × 7,9 mm
Operting temperature	– 30° C to +90° C

RS485 Terminator	Ref. 9 019 005

Local controls

Smoove IB Origin

Manual control of several motors over IB bus. Comfortable central control or group operability. Operation via the UP, DOWN and STOP buttons is possible at any time.

Smoove IB Origin	Ref. 1 811 272

For flush-mounted installation.

Smoove 1 RTS Origin

Manual control of several motors over RTS. Comfortable central control or group operability. Operation via the big UP, DOWN and STOP buttons is possible at any time.

Smoove 1 RTS Origin	Ref. 1 811 218

Smoove 1 RTS

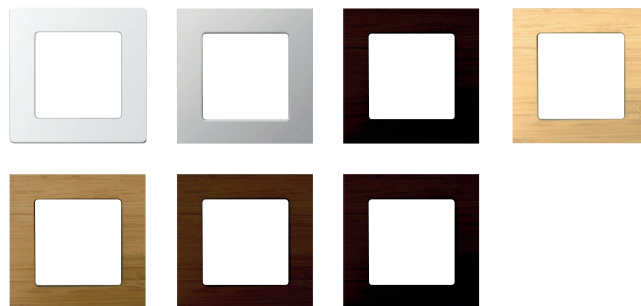1 channel on-wall radio transmitter to communicate with the RTS radio module.

Dimensions (w × h × d)	50 × 50 × 10 mm
Degree of protection	IP 30
Protection class	II
Operating voltage	3 V (battery model CR 2430)
Operating temperature	0° C to + 60° C
Operational conditions	dry living rooms
Radio frequency	433.42 MHz

Smoove 1 RTS

|	
• Pure shine	Ref. 1 810 873
• Black shine	Ref. 1 810 902
• Silver shine	Ref. 1 810 904
Adapter disc for other switching programs	Ref. 9 016 911

For wall-mounted installation.

Smoove frames

Smoove frames

• Pure	Ref. 9 015 022
• Silver Mat	Ref. 9 015 025
• Black	Ref. 9 015 023
• Light Bamboo - wood finish	Ref. 9 015 027
• Ambergris Bamboo - wood finish	Ref. 9 015 026
• Cherry - wood finish	Ref. 9 015 236
• Walnut - wood finish	Ref. 9 015 237
• Double frame pure	Ref. 9 015 238

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Project example

Functionality required and specified by the building owner.

• Unlimited number of zones to control exterior Venetian blinds.

• Interaction with lighting and HVAC system.

• Zone based shadow tracking.

• Control of blinds and light through Somfy RTS.

———	Links to sensors
———	Bus line KNX
———	Power supply
———	Motor cable
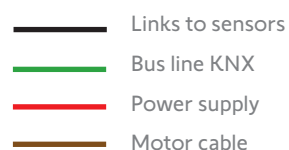
KNX Master Control

Products installed

KNX Master
Control
Ref. 1 860 187

KNX 4 AC
Motor Controller
Ref. 1 860 114

Weather Station
M8/M13
Ref. 1 860 306
Ref. 1 860 307

KNX-RTS Receiver
Ref. 1 860 191

Telis 4 Modulis
Ref. 1 810 664

Smoove Origin IB
Ref. 1 811 272

animeo KNX

Automatic functions

- Wind safety, as well as wind direction dependent.

- Sun automatic with sun tracking including zone based shadow tracking to provide a maximum of user confort and energy saving.

- Movement detectors are used to switch between the energy saving mode and comfort functions. The movement detectors are integrated into the bus system using the universal binary inputs of the Motor Controller.

Installation details
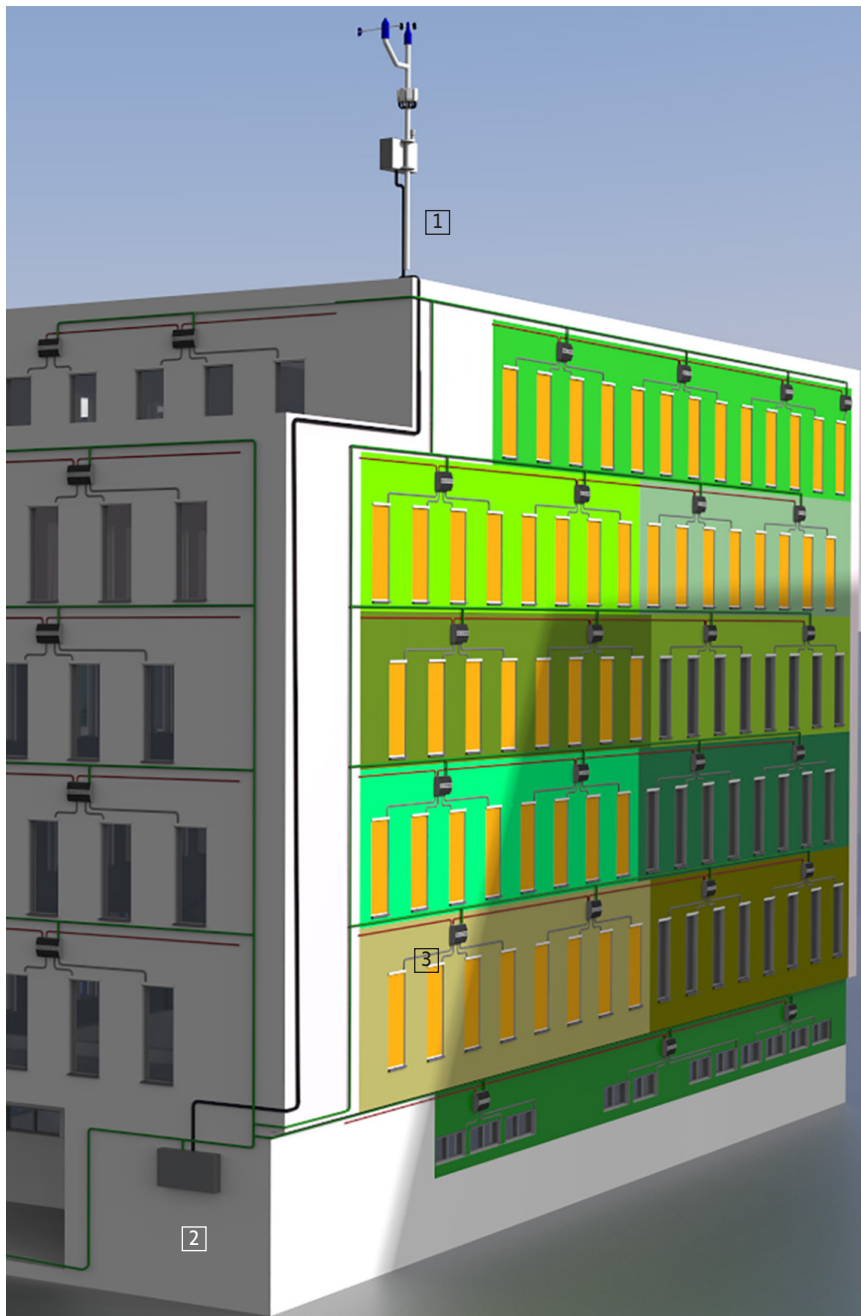
All the Motor Controllers are connected to the same KNX network via the animeo KNX Master Control.

One KNX Building Controller enables to creation of up to 16 zones. Additional zones can be created by adding more KNX Master Controls.

The Sensor Station is directly linked to the KNX Building Controller and each zone is separately managed depending on the weather and other parameters to be defined.

1. Sensor Station/ Weather Station M8/M13
2. animeo KNX Master Control
3. animeo KNX Motor Controller

Somfy Activites SA
50 Avenue du Nouveau Monde
74300 Cluses
France
www.somfy.com/projects

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www.pep-ecopassport.org

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