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.

Somfy solutions include

1. animeo intelligent building controls

Facade 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).

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.

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.).

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).

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.

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.).
Solutions for buildings

animeo: why and what for?

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

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.

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

<table>
<thead>
<tr>
<th>Building size</th>
<th>Level of functionalities</th>
<th>Stand-alone</th>
<th>Open protocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large</td>
<td>IB</td>
<td>IB</td>
<td>IB</td>
</tr>
<tr>
<td>Medium</td>
<td>IP/IO</td>
<td>IP/IO</td>
<td>IP/RS485</td>
</tr>
<tr>
<td>Small</td>
<td>IB+</td>
<td>IB+</td>
<td>IP/RS485</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of motors</th>
<th>1 - 800</th>
<th>1 - 6400</th>
<th>0 - 200</th>
<th>0 - 2000</th>
<th>&gt; 6400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of zones</td>
<td>1 - 2</td>
<td>1 - 16</td>
<td>no limit</td>
<td>no limit</td>
<td>&gt; 16</td>
</tr>
</tbody>
</table>

* BACnet® is a trademark of AHRAE
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

<table>
<thead>
<tr>
<th>Function Description</th>
<th>How does it work?</th>
<th>animeo solution compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>My sun position</strong></td>
<td>By programmable weakly timers or commands from sun sensors.</td>
<td>Solo IB+ IP KNX</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sun tracking</strong></td>
<td>Algorithm embedded in Somfy animeo softwares: function enabled, depending on the building precise geolocalisation.</td>
<td>IB+ IP KNX</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shadow tracking</strong></td>
<td>The shadow function is based on a precise building model including surrounding buildings that could project shadow onto the façades.</td>
<td>KNX</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>At night</strong></td>
<td>All blinds down to avoid discomfort linked to exterior lighting (direct spotlights lighting up the façades of some office buildings).</td>
<td>Solo IB+ IP KNX</td>
</tr>
<tr>
<td>By programmable timer.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Functions for increased building energy performance

<table>
<thead>
<tr>
<th>Function Description</th>
<th>How does it work?</th>
<th>animeo solution compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Block heat</strong></td>
<td>To keep the heat outside, blinds are automatically down when the sun is detected. The function applies at building, façade, zone or floor level.</td>
<td></td>
</tr>
<tr>
<td><strong>Solar heating</strong></td>
<td>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.</td>
<td>Solo IB+ IP KNX</td>
</tr>
<tr>
<td><strong>Maintain heat</strong></td>
<td>Blinds are automatically down to avoid heat loss and reduce heating costs.</td>
<td></td>
</tr>
<tr>
<td>Commands from sun sensors linked to indoor and outdoor temperature sensors.</td>
<td>Solo IB+ IP KNX</td>
<td></td>
</tr>
</tbody>
</table>

### Maintenance functions:

**Protection of solar shading or people (building safety)**

- **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.)

- **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. (Solo IB+ KNX)

- **Blind synergy**: When interior blinds, exterior blinds or window openers work together, the level of priorities can be programmed. (With the Building Controller.)

### Maintenance functions:

**Advanced functions/links to BMS**

- **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.).)

- **Remote access**: Remote access to blinds for facility managers. (Via the OPC server.)

### Functions to enhance the façade's appearance or indoor space

- **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.).)

- **Communication on façades**: Showing messages, words on the façade. (Via the OPC server.)

### Functions to enhance user comfort

- **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.)
Solutions for buildings

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

• 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.

DC Motor (DC)

For interior Venetian blinds: motors with smaller dimensions and lower torque.

For windows: motors operated with safety low voltage.

DC motor with integrated increment encoder (DC-E)

The increment encoder in the motor measures the exact position and sends a message to the controller. Applied in all situations where precise positioning is required. Adjustable running speed guarantees high user comfort.

Electrical connection

L-up, L-down, N, PE + extra cable with RS485

Torque of shading system

0.5–1.2 Nm

Energy with window motors

Extra cable

Diameter (not for window motors)

25–35 mm

Voltage

24 V DC

Current consumption; shading systems

0.3–1 A

Current consumption; window motors

0.3–2.5 A

Applications

For interior screens in situations where exact positioning and consistent high precision is required. Applicable for blinds greater than three meters in height.

Applications

For interior shading or for window motors.
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**

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT</td>
<td>Wired Technology (Somfy standard proprietary wired control). An ideal solution for new buildings.</td>
</tr>
<tr>
<td>KNX</td>
<td>World standard for home and building control which is suitable for use in any application domain.</td>
</tr>
<tr>
<td>BACnet</td>
<td>Networking protocol specifically created to address various functions within buildings (blind management, lighting, HVAC ...).</td>
</tr>
</tbody>
</table>

**Wireless technologies**

<table>
<thead>
<tr>
<th>Technology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTS</td>
<td>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.</td>
</tr>
<tr>
<td>Somfy motors compatible</td>
<td>Highly secure wireless technology included in a wide range of home and building equipment, making it fully compatible, reliable and secure.</td>
</tr>
</tbody>
</table>

**Digital technologies**

<table>
<thead>
<tr>
<th>Technology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Somfy Digital Network</td>
<td>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.</td>
</tr>
</tbody>
</table>

Typical animeo IB+, KNX and BACnet installation

AC Motor Controller and Smoove IB for local instruction

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

* BACnet® is a trademark of ASHRAE
Introduction

Solutions for buildings

Typical animeo IP/io and IP/RS485 installation

Somfy RS485 devices connected to one data communication line

USB io Transceiver to integrate motors and local controls

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
Radio frequency: 433.42 MHz

Smoove frames

Smoove 1 RTS

- Pure shine
- Black shine
- Silver shine
- Adapter disc for other switching programs

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

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
Solutions for buildings

Telis 1 RTS

• Pure
• Silver
• Lounge
• Patio

1 channel handheld radio transmitter, control of one or several motors per radio. Telis 1 RTS = 1 channel: single or group operation possible.

Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 1 Modulis RTS

• Pure
• Silver
• Lounge

1 channel handheld radio transmitter, manual control of one or several Venetian blind motors per radio. Comfortable manual alignment of the slats using the scroll wheel.

Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 4 RTS

• Pure
• Silver
• Lounge
• Patio

5 channel handheld radio transmitter, manual control of one or several motors per radio. Telis 4 RTS = 5 channels: single or group operation possible.

Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 4 Modulis RTS

• Pure
• Silver
• Lounge
• Patio

5 channel handheld radio transmitter, manual control of one or several Venetian blind motors per radio. Comfortable manual alignment of the slats using the scroll wheel. Telis 4 Modulis RTS = 5 channels: single or group operation possible.

Scope of delivery: handheld transmitter including wall brackets and battery.
## Solutions for buildings

### Selection guide for sensors associated with animeo solutions

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temperature</th>
<th>Sun</th>
<th>Rain</th>
<th>Combined sensors/Sensor Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind Direction Sensor</td>
<td>Wind Sensor</td>
<td>Outside Temperature Sensor</td>
<td>Inside Temperature Sensor</td>
<td>Kit Sun Sensor and Bracket</td>
</tr>
<tr>
<td>Ref. 9 013 807</td>
<td>Ref. 9 001 608</td>
<td>Ref. 9 140 180</td>
<td>Ref. 9 014 79</td>
<td>Ref. 9 008 044</td>
</tr>
</tbody>
</table>

### animeo Solo

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temperature</th>
<th>Sun</th>
<th>Rain</th>
<th>Combined sensors/Sensor Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK (1)</td>
<td>OK (1)</td>
<td>OK (1)</td>
<td>OK (1)</td>
<td>OK</td>
</tr>
</tbody>
</table>

### animeo IB+

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temperature</th>
<th>Sun</th>
<th>Rain</th>
<th>Combined sensors/Sensor Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK</td>
</tr>
</tbody>
</table>

### animeo IP/io

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temperature</th>
<th>Sun</th>
<th>Rain</th>
<th>Combined sensors/Sensor Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK</td>
</tr>
</tbody>
</table>

### animeo IP/RS485

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temperature</th>
<th>Sun</th>
<th>Rain</th>
<th>Combined sensors/Sensor Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK (2)</td>
<td>OK</td>
</tr>
</tbody>
</table>

### animeo KNX

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temperature</th>
<th>Sun</th>
<th>Rain</th>
<th>Combined sensors/Sensor Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK (5)</td>
<td>OK (5)</td>
<td>OK (5)</td>
<td>OK (5)</td>
<td>OK</td>
</tr>
</tbody>
</table>

---

(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) The Sensor station is directly connected to the Building Controllers.
(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

<table>
<thead>
<tr>
<th>Function</th>
<th>Solo</th>
<th>IB+</th>
<th>IP/10</th>
<th>IP/RS485</th>
<th>KNX</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS interoperability (BACnet)</td>
<td>-</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Integrated data logging (system status)</td>
<td>-</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Integrated building timer</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Integrated zone timer</td>
<td>-</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Integrated yearly timer</td>
<td>-</td>
<td>-</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Zone control switch/key switch</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>System configuration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC software</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web display</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>System operation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC software (BMS)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Web display</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

### User Comfort/Energy Saving Functions

- Wired local control
- Wired local control (Somfy RTS)
- Wired 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 scene

### Security Functions

- Alarm input
- Wind speed
- Wind direction
- Rain
- Outside temperature
- Snow
- Frost
- Ice
- Window contact
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

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solaris</td>
<td>![Solaris Sensor]</td>
</tr>
<tr>
<td>Sun sensor</td>
<td>![Sun Sensor]</td>
</tr>
<tr>
<td>Eolis</td>
<td>![Eolis Sensor]</td>
</tr>
<tr>
<td>Rain sensor</td>
<td>![Rain Sensor]</td>
</tr>
</tbody>
</table>

Temperature sensors

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>outside</td>
<td>![Outside Temperature Sensor]</td>
</tr>
<tr>
<td>inside</td>
<td>![Inside Temperature Sensor]</td>
</tr>
</tbody>
</table>

Building Controllers

<table>
<thead>
<tr>
<th>Controller Type</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>animeo Solo 1 zone</td>
<td>![Animeo Solo 1 Zone]</td>
</tr>
<tr>
<td>animeo Solo 2 zones</td>
<td>![Animeo Solo 2 Zones]</td>
</tr>
</tbody>
</table>

Motor Controllers

<table>
<thead>
<tr>
<th>Controller Type</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 outputs</td>
<td>![4 Outputs]</td>
</tr>
<tr>
<td>1 output</td>
<td>![1 Output]</td>
</tr>
<tr>
<td>2 outputs</td>
<td>![2 Outputs]</td>
</tr>
</tbody>
</table>

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**

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.

**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. 9 154 080

**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 spider and birds.
- Delivered with solar radiation sensor protective housing.

**Dimensions**

Height 150 mm

ø 115 mm

**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**

Height 75 mm

ø 115 mm

**Wiring recommendations**

2 × 0.8 mm

**Housing for Inside Temperature Sensor**

Ref. 9 008 045

**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 safe and solid wiring to the Outside Sensor Box.

**Dimensions Sun Sensor (w × h × d)**

160 × 80 × 67 mm

**Degree of protection**

IP 43

**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

**Dimensions**

Height 150 mm

ø 115 mm

**Wiring recommendations**

2 × 0.8 mm

**Sun Sensor**

Ref. 9 154 080
Sensors and accessories

**Inside Temperature Sensor**
- To measure the inside temperature.
- Ref. 9 017 611

**Rain Sensor Ondeis**
- Capacitive sensor to measure precipitation with UV-opaque and UV stabilized housing, 24 V DC and 230 V AC version available.
- Dimensions (w × h × d): 78 × 93 × 56 mm
- Degree of protection: IP 20
- 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

**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).

**Additional information**
- For Din-rail installation, 4 SU’s.

**Inside Temperature Sensor**
- Dimensions (w × h × d): 115 × 100 × 85 mm
- Degree of protection: IP 44
- Wiring recommendations: 3 × 1.5 mm
- Ref. 9 016 344

**Rain Sensor Ondeis 24 V DC**
- Ref. 9 016 344

**Rain Sensor Ondeis 230 V AC**
- Ref. 9 016 345

**Local controls**

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

**Smoove 1 RTS Origin**
- Manual control of several motors over IB bus. Comfortable central control or group operability.

**Smoove frames**

**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 frames**

**Product benefits**
- Manual control of several motors over IB bus. Comfortable central control or group operability.

**Additional information**
- For flush-mounted installation.

**Product benefits**
- 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.

**Additional information**
- For flush-mounted installation.
Local controls

Telis 1 RTS

1 channel handheld radio transmitter, control of one or several motors by radio.
Telis 1 RTS = 1 channel: single or group operation possible.

Telis 1 RTS

- Pure
- Silver
- Lounge
- Patio

5 channel handheld radio transmitter, manual control of one or several Venetian blind motors by radio.
Telis 4 RTS = 5 channels: single or group operation possible.

Telis 4 RTS

- Pure
- Silver
- Lounge
- Patio

Telis 1 Modulis RTS

1 channel handheld radio transmitter, manual control of one or several Venetian blind motors by radio.
Comfortable manual alignment of the slats using the scroll wheel.

Telis 1 Modulis RTS

- Pure
- Silver
- Lounge
- Patio

Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 4 Modulis RTS

5 channel handheld radio transmitter, manual control of one or several Venetian blind motors by radio.
Telis 4 Modulis RTS = 5 channels: single or group operation possible.

Telis 4 Modulis RTS

- Pure
- Silver
- Lounge
- Patio

Scope of delivery: handheld transmitter including wall brackets and battery.

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.

Products installed

- animeo Solo
- 2 zones
  Ref. 1 860 144
- Soliris Sensor
  Ref. 9 154 000
- Rain Sensor
  Ref. 9 016 345
- Outside temperature Sensor
  Ref. 9 001 611
- Motor Controller Smoove UNO IB+
  Ref. 1 811 205
- animeo Motor Controller
  Ref. 1 860 049

Automatic functions

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

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

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 functions

- 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

System topology

Inside sensors

Outside sensors

Outside sensors

Building Controllers

Motor Controllers

Compatible with radio local control

* BACnet® is a trademark of ASHRAE
animeo IB+

Building Controller

4 Zone/8 Zone TouchBuco/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 640 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.
- 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.

Dimensions (w × h × d)
200 × 112 × 72 mm

Protection class
IP 20

Operating voltage
250 V AC

Operational temperature
-10°C to +40°C

Operational humidity
10% to 90% RH non-condensing

Configuration, monitoring and maintenance is realized through a menu guided intuitive capacitive 7 inch user touch screen providing wide range of useful functions optimizing the building performance.

• 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 position.
• 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.

animeo IB+ 4 Zone TouchBuco
Ref. 1 860 254

animeo IB+ 4 Zone TouchBuco
BACnet (CE, EAC, UL, KC)
Ref. 1 870 475

animeo IB+ 8 Zone TouchBuco
Ref. 1 860 255

animeo IB+ 8 Zone TouchBuco
BACnet (CE, EAC, UL, KC)
Ref. 1 870 474

animeo IB+ 8 Zone TouchBuco
BACnet (CE, EAC, UL, KC)
Ref. 1 870 475

animeo IB+ 8 Zone TouchBuco
Ref. 1 860 308

animeo IB+ 8 Zone TouchBuco
BACnet (CE, EAC, UL, KC)
Ref. 1 860 309

Building Controller

For DIN-rail installation, 12 VDC.

• 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.

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

Protection class
IP 20

Operating voltage
250 V AC

Operational temperature
-10°C to +40°C

Software
• USB/BUS45 Interface
Ref. 9 012 519

USB/HDR45 Interface
Ref. 9 016 358

animeo IB+

Building Controller

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 suspension of centralized 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 IB). 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 lighting 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.

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

Protection class
IP 20

Operating voltage
250 V AC

Operational temperature
-10°C to +40°C

Software
• USB/BUS45 Interface
Ref. 9 012 519

USB/HDR45 Interface
Ref. 9 016 358

animeo IB+

Building Controller

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- 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.

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

Protection class
IP 20

Operating voltage
250 V AC

Operational temperature
-10°C to +40°C
Sensors and accessories

Weather Station M8/M13

Product benefits
- 8 sensors to collect the external conditions in 4 different orientations.
- Outside temperature sensor for energy optimisation.
- Sensor for wind speed and rain to protect external shades or blinds.

Further features
- 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, 203 mm

Degree of protection
IP44 in working position

Protection class
II

Operating voltage
24 V DC ± 10% ± 10%

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

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

Further features
- Only two cables must be laid for façade and roof mounting.
- Up to 8 sun sensors, 2 wind sensors, 1 wind direction sensor, 1 rain sensor, 1 outside temperature sensor as well as a DIP plug module can be connected to the Outside Sensor Box.
- 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)
180 x 80 x 80 mm
Bracket for Weather Station
Ref. 1 860 320

Metallic Mast for Weather station M8/M13

Product benefits
- 1 m, 50 mm Mast
- Minimum order quantity = 3

Further features
- 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.

Dimensions (h, Ø)
1 m, 50 mm

Metallic Mast
Ref. 1 860 335

Dimensions (w × h × d)
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
(1 x Mast, 1 x Bracket, 1 x Adaptor)
Ref. 9 027 015

Lightning protection

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

Electronic lightning protection
- Power supply
Ref. 9 025 707

Electronic lightning protection
RS485
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
- Inside Temperature Sensors enable easy extensibility of the system’s energy saving options.

Further features
- Status display through LED’s for clear monitoring of connected and functioning individual sensors.

Dimensions (w × h × d)
210 x 50 x 61 mm

Degree of protection
IP 20

Protection class
II

Operating voltage
230 V AC

Operating temperature
0° C to +55° C

Inside Sensor Box
For DIN-rail installation, 22 Slots.
Ref. 9 002 614

Power Supply DRM 24 V 1.5 A

To supply the Outside Sensor Box (without heated sensors) or the animeo IB+ Compact Sensor.

Dimensions (w × h × d)
110 x 140 x 61 mm

Degree of protection
IP 20

Protection class
II

Operating voltage
230 V AC

Outside Sensor Extension Box
Ref. 9 005 607

Outside Sensor Box
Ref. 9 005 606

Housing for Inside Temperature Sensor

To install an Inside Temperature Sensor.

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

Inside Temperature Sensor
Ref. 9 008 045

Inside Temperature Sensor
To measure the inside temperature.

Dimensions (w × h × d)
207 x 295 x 90 mm

Degree of protection
IP 44

Protection class
II

Operating voltage
24 V AC/DC

Operating temperature
-30 °C...70 °C

Outside Sensor Box
Ref. 9 006 606
Outside Sensor Extension Box
Ref. 9 005 607

animeo Power Supply DC

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

animeo Power Supply DC
With wall-mounted and DIN-rail installation.
Ref. 1 860 091

Power Supply DRM 24 V 1.5 A

Dimensions (w × h × d)
78 x 93 x 56 mm

Degree of protection
IP 20

Protection class
II

Operating voltage
24 V AC

Output current
1.5 A

Power Supply DRM 24 V DC 1.5 A
Ref. 9 027 621

Power Supply DRM 24 V 1.5 A

Housing for Inside Temperature Sensor

To install an Inside Temperature Sensor.

Dimensions (w × h × d)
207 x 295 x 90 mm

Degree of protection
IP 44

Protection class
II

Operating voltage
24 V AC/DC

Operating temperature
-30 °C...70 °C

Outside Sensor Box
Ref. 9 006 606
Outside Sensor Extension Box
Ref. 9 005 607

animeo Power Supply DC

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

animeo Power Supply DC
With wall-mounted and DIN-rail installation.
Ref. 1 860 091

Power Supply DRM 24 V 1.5 A

Dimensions (w × h × d)
78 x 93 x 56 mm

Degree of protection
IP 20

Protection class
II

Operating voltage
24 V DC

Output current
1.5 A

Power Supply DRM 24 V DC 1.5 A
Ref. 9 027 621
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 150 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

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 303 mm,
Arrow length 515 mm,
max. ø-mast: 48 mm

Degree of protection
IP 54

Wiring recommendations
5 × 1.5 mm²

Outside Temperature Sensor
Ref. 9 001 611

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 103 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

Rain Sensor Ondis

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
2 × 0.8 mm

Rain Sensor Ondis 24 V DC
Ref. 9 016 345

Rain Sensor Ondis 230 V AC
Ref. 9 016 344

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 mm²

Sun Sensor (without mounting brackets)
Ref. 9 050 100

Mounting brackets for Sun Sensor
Ref. 9 127 888

Kit Sun Sensor incl. Brackets
Ref. 9 154 041

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.

Dimensions
Sensor Station
Ref. 9 015 726

Sensor Station extended

The Sensor Station extended consists of an aluminium 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 façade orientation.

Dimensions
Sensor Station extended
Ref. 9 015 727
Motor Controller for flush-mounted installation

- Touch-sensitive technology
- my = intermediate position
- Display prioritised central commands (e.g. wind)
- Suitable for all 50 x 50 mm mounting frames
- 3 colors
- Combinable with cut-off relay for flush-mounted box
- Sun automatic on/off

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.

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 x 230 V AC motors via touch-sensitive switch or in groups via Somfy IB or animeo IB+ controlling technology.

Accessories

Smoove UNO IB+ frames

For flush-mounted installation.

Smoove frames

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 x 230 V AC motors via touch-sensitive switch or in groups via Somfy IB or animeo IB+ controlling technology.

Accessories

Smoove UNO IB+ frames

For flush-mounted installation.

Smoove frames
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

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
- Independently switchable intermediate position "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
H
Operating voltage
210 V AC
Operating temperature
0° C to + 50° C
Output voltage
210 V AC
Output current
3 A

IB+ 1 AC Motor Controller IWM
Ref. 1 860 328
For wall-mounted installation.
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 safety fuses per output.

**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 the individual control of 4 × 230 VAC 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

**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

**Housing IP 54** Ref. 9 012 740

For the integration of a Motor Controller DRM in an IP 54 housing. 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. External 24 V DC power supply required (see accessories).

**Product benefits**
- Output protected through current detection.

**Further features**
- 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.

**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 + 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 devices. Direct plug-in to Motor Controller.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>52 × 92 × 27 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>5 V DC, from animeo IB+ Motor Controller</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>≤ 1 kV, ≥ 40 kHz</td>
</tr>
<tr>
<td>Radio frequency</td>
<td>433 MHz</td>
</tr>
<tr>
<td>Radio range</td>
<td>20 m through 2 walls</td>
</tr>
</tbody>
</table>

**Power Supply DC**

- To supply power to the DC Motor Controller.

  When using “Somfy Concept 25” motors, up to 2 Motor Controllers can be supplied via one power supply (+ 6 motors). Switchable also in parallel: 2 x 4.5 A = 9 A.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>130 × 180 × 62 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230 V AC</td>
</tr>
<tr>
<td>Output current</td>
<td>2.5 A (switch on duration 100%)</td>
</tr>
<tr>
<td></td>
<td>4.5 A (switch on duration 50%; 3 min. on, 3 min. off)</td>
</tr>
</tbody>
</table>

| Power Supply DC | Ref. 1 860 093 |

**Switch zone splitter**

- To create sub-groups within an IB+ zone.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>80 × 80 × 52 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection housing</td>
<td>IP 65</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Switch zone splitter</td>
<td>Ref. 1 850 392</td>
</tr>
</tbody>
</table>

**Sensor Hub**

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

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>72 × 122 × 35 mm</th>
</tr>
</thead>
</table>

**Flush Mounting Box TouchBuco**

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>192 × 119 × 68 mm</th>
</tr>
</thead>
</table>

---

**animeo IB+**

### Accessories

**Surface Mounting Box TouchBuco**

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>254 × 120 × 90 mm</th>
</tr>
</thead>
</table>

**IB+ Wiring Test Tool**

- To ensure that the system is properly wired.

| IB+ Wiring Test Tool | Ref. 1 820 793 |

**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.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>70 × 105 × 23 mm</th>
</tr>
</thead>
</table>

**USB IB+ Interface**

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

| USB IB+ Interface | Ref. 1 860 146 |

**IB/IB+ Repeater**

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

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>168 × 160 × 60 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 5x</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230 V AC</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to + 45°C</td>
</tr>
</tbody>
</table>

**DIN-rail adapter**

<table>
<thead>
<tr>
<th>DIN-rail adapter</th>
<th>Ref. 9 008 049</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (w × h × d)</td>
<td>70 × 105 × 23 mm</td>
</tr>
</tbody>
</table>

**Flush Mounting Box TouchBuco**

- For wall-mounted installation.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
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**Sensor Hub**

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

<table>
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<tr>
<th>Dimensions (w × h × d)</th>
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</table>

**Flush Mounting Box TouchBuco**

- For wall-mounted and DIN-rail installation.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>192 × 119 × 68 mm</th>
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<thead>
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<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>192 × 119 × 68 mm</th>
</tr>
</thead>
</table>

---
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
Adapted disc for other switching programs For wall-mounted installation.

Smoove frames
• Pure Ref. 9 015 022
• Silver Matt Ref. 9 015 025
• Black Ref. 9 015 023
• Light Bamboo – wood finish Ref. 9 015 027
• Amsberg 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

Local controls

Telis 4 RTS

5 channel handheld radio transmitter, control of one or several motors per radio. Telis 4 RTS = 5 channels: single or group operation possible.

Telis 4 RTS
• Pure Ref. 1 810 630
• Silver Ref. 1 810 637
• Lounge Ref. 1 810 649
• Patio Ref. 1 810 646
Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 4 Modulis RTS

5 channel handheld radio transmitter, manual control of one or several Venetian blind motors per radio. Comfortable manual alignment of the slats using the scroll wheel.

Telis 4 Modulis RTS
• Pure Ref. 1 810 631
• Silver Ref. 1 810 638
• Lounge Ref. 1 810 651
• Patio Ref. 1 810 644
Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 1 RTS

1 channel handheld radio transmitter, control of one or several motors per radio. Telis 1 RTS = 1 channel: single or group operation possible.

Telis 1 RTS
• Pure Ref. 1 810 630
• Silver Ref. 1 810 637
• Lounge Ref. 1 810 649
• Patio Ref. 1 810 646
Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 1 Modulis RTS

1 channel handheld radio transmitter, manual control of one or several Venetian blind motors per radio. Comfortable manual alignment of the slats using the scroll wheel.

Telis 1 Modulis RTS
• Pure Ref. 1 810 974
• Silver Ref. 1 810 975
• Lounge Ref. 1 810 976
• Patio Ref. 1 810 979
Scope of delivery: handheld transmitter including wall brackets and battery.

Telis 1 RTS Origin
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Telis 1 RTS Origin Ref. 1 811 218

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• Black Ref. 9 015 023
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Smoove IB Ref. 1 811 272
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Smoove IB Origin Ref. 1 811 272
For wall-mounted installation.
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.

Products installed

1. animeo IB+ Building Controller
2. Weather Station M8/M13
3. RTS Lounge Switch
4. RTS radio module
5. animeo Power Supply DC
6. animeo Motor Controller
7. Bus line IB+
8. Power supply
9. Motor cable
10. Links to sensors

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

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 IB+

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.

**BACnet**

**TM**

is a trademark of ASHRAE

---

System topology

<table>
<thead>
<tr>
<th>Inside sensors (optional)*</th>
<th>Outside sensors (optional)*</th>
<th>Outside sensors (optional)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x</td>
<td>8 x</td>
<td>2 x</td>
</tr>
<tr>
<td>Inside Sensor Box</td>
<td>Weather Station M8 ©</td>
<td>Weather Station M3 ©</td>
</tr>
<tr>
<td></td>
<td>Outside Sensor Box</td>
<td></td>
</tr>
</tbody>
</table>

Building Controllers

- animeo IP Building Controller io
- animeo IP Sub Controller io
- animeo IP USB io Transceiver

Operating options

- animeo IP visual configuration software
- Compatible with radio local control and web remote
- Error output
- Central control
- Alarm input
- For system expansion

Radio motors

- 8 x
- 2 x
- animeo IP visual configuration software

---

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.

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.

---

* Per Building Controller/Sub Controller
** BACnet® is a trademark of ASHRAE
Building and Sub 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 convenience.
- Suitable for wall-mounting and DIN-rail installation.
- RJ45 and spring clamp connectors in case of false proof connections.

**Further features**
- For larger installations, the IP Building Controller’s capacity can be expanded with the addition of an animeo Sub Controller.
- R4.4S 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 (screen, 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.

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**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.
- R4.4S and spring clamp connectors for false proof 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).

---

**Transceiver**

The use of the USB io Transceiver is mandatory with every animeo IP 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.

---

**Weather Station M8/M13**

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

**Product benefits**
- 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.

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

**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)**
- 140 x 60 x 82 mm

Ref. 1 860 320

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animeo IP/io

Sensors and accessories

Metallic Mast for Weather station M8/M13

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

- Dimensions (w x d): 1 m, 50 mm
- Metallic Mast: Ref. 1 860 335
- Wall Mount Bracket: Ref. 1 860 316
- Dimensions (w x d x h): 200 x 90 x 30 mm
- Mount Adapter for Weather Station: Ref. 1 860 311
- Kit Mast with 25 mm adaptor (1 x Mast, 1 x Bracket, 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 x h x d): 207 x 255 x 90 mm
- Degree of protection: IP 44
- Protection class: II
- Operating voltage: 24 V AC/DC
- Operating temperature: -30°C to +70°C
- Outside Sensor Box: Ref. 9 001 606
  For wall-mounted installation.

Power Supply DRM 24 V 1.5 A

To supply the Outside Sensor Box (without heated sensors) or the animeo IB+ Compact Sensor.

- Dimensions (w x h x d): 78 x 93 x 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.

animeo Power Supply DC

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

- Dimensions (w x h x d): 130 x 180 x 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.

- Electronic lightning protection power supply: Ref. 9 025 101
- Electronic lightning protection HE 485: Ref. 9 025 106

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: 58 mm
- Degree of protection: IP 54
- Wiring recommendations: 2 x 0.8 mm²

- Wind Sensor: Ref. 9 001 608

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 200 mm, ø 240 mm
  Max. ø mast: 58 mm
- Degree of protection: IP 54
- Wiring recommendations: 5 x 1.5 mm²

- Wind Direction Sensor: Ref. 9 023 807

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 200 mm, ø 240 mm
  Max. ø mast: 58 mm
- Degree of protection: IP 54
- Wiring recommendations: 5 x 1.5 mm²

- Heated Wind Sensor: Ref. 9 140 180

Wind Direction Sensor

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

- Dimensions: Height 101 mm, Arrow length 513 mm, Max. ø mast: 58 mm
- Degree of protection: IP 54
- Wiring recommendations: 5 x 1.5 mm²

- Wind Direction Sensor: Ref. 9 018 807
animeo IP/io

Sensors and accessories

Outside Temperature Sensor

To measure exterior temperature 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.

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. 9001610).
- Delivered with a 2.30 m cable (Ø 0.75 mm²).

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.

Sensor Station

The Sensor Station consists of an aluminium mast with 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.

Rain Sensor Ondeis 24 V DC

Ref. 9 016 144

Dimensions (w × h × d)

115 × 160 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Rain Sensor Ondeis 230 V AC

Ref. 9 016 145

Dimensions (w × h × d)

115 × 220 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Sun Sensor

(Ref. 9 050 100)

Dimensions (w × h × d)

135 × 50 × 40 mm

Degree of protection

IP 65

Wiring recommendations

2 x 0.8 mm²

Angle position

150°

Mounting brackets for Sun Sensor

Ref. 9 127 888

Kit Sun Sensor incl. brackets

Ref. 9 115 043

Sun Sensor Ondeis 230 V AC

Ref. 9 016 145

Dimensions (w × h × d)

115 × 220 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Inside Temperature Sensor

To measure the inside temperature.

Sensor Station extended

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/R45/5 shade systems.

Product benefits

- RS485 connector for false prove connections
- LED indicators providing information about the status of the product, the normal operation or a system error.
- Auto device discovery for animeo IP/io and animeo IP/R45/5 shade systems.
- Programmable through user-friendly interface.
- Integration capabilities: Modbus, BACnet MS/TP, BACnet IP.

Inside Sensor Box

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

Product benefits

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

Inside Temperature Sensor

Ref. 9 028 044

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

Dimensions (w × h × d)

75 × 75 × 25 mm

Housing for Inside Temperature Sensor

Ref. 9 008 045

Dimensions (w × h × d)

75 × 75 × 25 mm

Inside Temperature Sensor

Ref. 9 028 044

BMS Interface

Ref. 1 822 558

* BACnet® is a trademark of ASHRAE.

animeo IP/io

Sensors and accessories

Sensor Station

For DIN-rail installation, 12 SUs.

Product benefits

- Compass included in delivery for exact positioning of the sensor station.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Rain Sensor Ondeis 230 V AC

Ref. 9 016 145

Dimensions (w × h × d)

115 × 220 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Inside Sensor Box

For DIN-rail installation, 12 SUs.

Product benefits

- Compass included in delivery for exact positioning of the sensor station.
- Position of pre-mounted and pre-wired sun sensors is clearly indicated for precise façade orientation.

Rain Sensor Ondeis 24 V DC

Ref. 9 016 144

Dimensions (w × h × d)

115 × 160 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Rain Sensor Ondeis 230 V AC

Ref. 9 016 145

Dimensions (w × h × d)

115 × 220 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Sun Sensor

(Ref. 9 050 100)

Dimensions (w × h × d)

135 × 50 × 40 mm

Degree of protection

IP 65

Wiring recommendations

2 x 0.8 mm²

Angle position

150°

Mounting brackets for Sun Sensor

Ref. 9 127 888

Kit Sun Sensor incl. brackets

Ref. 9 115 043

Sun Sensor Ondeis 230 V AC

Ref. 9 016 145

Dimensions (w × h × d)

115 × 220 × 80 mm

Wiring recommendations

5 x 1.5 mm²

Inside Temperature Sensor

To measure the inside temperature.

Sensor Station extended

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/R45/5 shade systems.

Product benefits

- RS485 connector for false prove connections
- LED indicators providing information about the status of the product, the normal operation or a system error.
- Auto device discovery for animeo IP/io and animeo IP/R45/5 shade systems.
- Programmable through user-friendly interface.
- Integration capabilities: Modbus, BACnet MS/TP, BACnet IP.

Inside Sensor Box

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

Product benefits

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

Inside Temperature Sensor

Ref. 9 028 044

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.
### 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
- Operating voltage: 3 V (battery model CR 2430)
- Operating temperature: 0° C to +60° C

**Smoove Origin io**
- 1 channel on-wall radio transmitter.
- Dimensions (w × h × d): 50 × 50 × 50 mm
- Degree of protection: IP 30
- Operating voltage: 3 V (battery model CR 2430)
- Operating temperature: 0° C to +60° C

**Smoove IB Origin**
- Manual control of several motors over IB bus.
- Comfortable central control or group operability.

**Smoove frames**

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure</td>
<td>9 015 022</td>
</tr>
<tr>
<td>Silver Mat</td>
<td>9 015 025</td>
</tr>
<tr>
<td>Black</td>
<td>9 015 023</td>
</tr>
<tr>
<td>Light Bamboo - wood finish</td>
<td>9 015 027</td>
</tr>
<tr>
<td>Anegraia Bamboo - wood finish</td>
<td>9 015 026</td>
</tr>
<tr>
<td>Cherry - wood finish</td>
<td>9 015 026</td>
</tr>
<tr>
<td>Walnut - wood finish</td>
<td>9 015 237</td>
</tr>
<tr>
<td>Double frame pure</td>
<td>9 015 238</td>
</tr>
</tbody>
</table>

### Local remote controls

**Situo 1 io**
- 1 channel radio remote transmitters.
- Dimensions (w × h × d): 36 × 154 × 15 mm
- Degree of protection: IP 30
- Degree of protection: IP 30
- Operating voltage: 3 V (battery model CR 2430)
- Operating temperature: 0° C to +60° C

**Situo 5 io**
- 5 channel radio remote transmitters.
- Dimensions (w × h × d): 36 × 154 × 15 mm
- Degree of protection: IP 30
- Degree of protection: IP 30
- Operating voltage: 3 V (battery model CR 2430)
- Operating temperature: 0° C to +60° C

### Web remote control

**Situo 1 io Pure 5L**
- Ref. 1 800 463

**Situo 1 io Titane 5L**
- Ref. 1 800 464

**Situo 1 io Metal Orange 5L**
- Ref. 1 800 465

**Situo 1 io Metal Green 5L**
- Ref. 1 800 475

**Situo 5 io Pure 5L**
- Ref. 1 811 297

**Situo 5 io Titane 5L**
- Ref. 1 811 298

**Situo 5 io Metal Orange 5L**
- Ref. 1 811 299

**Situo 5 io Metal Green 5L**
- Ref. 1 811 352

### 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**
- Controls Up/Down position
- Controls slat position
- Displays of blind position
- Overrides automatic functions

**animeo IP web remote license key**
- Ref. 9 019 24A
### Motors

**animeo IP/io**


**Oximo io**

- **Type of head**: Star
- **Diameter**: 50 mm
- **Degree of protection**: IP 44
- **Protection class**: 1
- **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

---

**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**: 1
- **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 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**: 1
- **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 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**: 1
- **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

---

**J4 io Protect**


- **Degree of protection**: IP 54 for motor - IP 67 for plate
- **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

---

**J406 6/24 io Protect Unit**

**J410 10/24 io Protect Unit**

**J418 18/24 io Protect Unit**

△ 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.

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

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

Products installed

- Power supply
- IP cable

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
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**

**Building Controllers**

- Error output
- Central control
- Alarm input

**Operating options**

- animeo IP
- Building Controller

- animeo IP
- Sub Controller

**RS485 motors**

- Sonesse 30 RS485
- Sonesse 50 RS485
- LT50 RS485

**Inside sensors (optional)***

<table>
<thead>
<tr>
<th>4 x</th>
<th>2 x</th>
</tr>
</thead>
</table>

**Outside sensors (optional)***

| 4 x | 8 x |

**Outside sensors (optional)***

| 8 x | 2 x |

**Inside Sensor Box**

**Outside Sensor Box**

**System topology for system expansion**

- animeo IP visual configuration software

- Sonesse 30 RS485
- Sonesse 50 RS485
- LT50 RS485

**DecoFlex**

**Web remote**

**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.

**Sun Tracking**

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

* Per Building Controller/Sub Controller

**BACnet** is a trademark of ASHRAE
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).
- RK45 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 there are strong winds (gale warning).
- Rain and snow safety function with configurable time delays, both for each zone.

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 route to interface over an IP backbone to provide a stable connection between all appliances.
- RK45 and spring clamp connectors for false proof 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).

Sensors and accessories

Weather Station M8/M13

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

Product benefits

- 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.

Further features

- Further IP Building Controller's capacity can be expanded through additional IP Sub Controllers (pass through).

Metallic Mast for Weather station M8/M13

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

Building Controller

Housing Dimensions (w x h x d) 100 x 175 x 50 mm
Degree of protection IP 20
Protection class IP
Supply voltage 100 - 240 VAC / 50/60 Hz
Operating temperature 0 °C to +45 °C
animeo IP/RS485 Building Controller Ref. 1822114

Sub Controller

Housing Dimensions (w x h x d) 100 x 175 x 50 mm
Degree of protection IP 20
Protection class IP
Supply voltage 100 - 240 VAC / 50/60 Hz
Operating temperature 0 °C to +45 °C
animeo IP/RS485 Sub Controller Ref. 1860201

Weather Station M8/M13

H8
- 8 sensors to collect the external conditions in 4 different orientations.

Further features

- 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.

Metallic Mast for Weather station M8/M13

Dimensions (w x h x d) 250 x 90 x 30 mm
Wall Mount Bracket Ref. 1860336
Metallic Mast (1 m) Ref. 1860321
Metal Mast (0,5 m) Ref. 9027035

Bracket for Weather Station M8/M13

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

Dimensions (w x h x d) 180 x 80 x 80 mm
Bracket for Weather Station Ref. 1860320

Lightning protection

Electronic lightning protection power supply
Ref. 0925706

Electronic lightning protection Kit 485
Ref. 0925707
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.

animeo Power Supply DC

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

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>130 × 180 × 61 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230 V AC</td>
</tr>
</tbody>
</table>
| 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

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.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>207 × 255 × 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 44</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>24 V AC/DC</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-30° C to +70° C</td>
</tr>
</tbody>
</table>

Outside Sensor Box

Ref. 9 005 696

For wall-mounted installation.

Power Supply DRM 24 V 1.5 A

To supply the Outside Sensor Box (without heated sensors) or the animeo IB+ Compact Sensor.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>78 × 93 × 56 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230 V AC</td>
</tr>
<tr>
<td>Output current</td>
<td>1.5 A</td>
</tr>
</tbody>
</table>

Power Supply DRM 24 V DC 1.5 A

Ref. 9 017 631

For DIN-rail installation.

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.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height 190 mm, ø 240 mm max. ø-mast: 48 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>5 × 2.5 mm²</td>
</tr>
</tbody>
</table>

Heated Wind Sensor

Ref. 9 140 140

Wind Direction Sensor

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

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height 103 mm, Arrow length 513 mm, max. ø-mast: 54 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>5 × 1.5 mm²</td>
</tr>
</tbody>
</table>

Wind Direction Sensor

Ref. 9 013 607

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. 9 005 696).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>115 × 100 × 85 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>5 × 1.5 mm²</td>
</tr>
</tbody>
</table>

Rain Sensor Ondeis 24 V DC

Ref. 9 016 944

Rain Sensor Ondeis 230 V AC

Ref. 9 016 944

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.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height 150 mm, ø 115 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 65</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>2 × 0.8 mm</td>
</tr>
</tbody>
</table>

Outside Temperature Sensor

Ref. 9 001 611

Outside Temperature Sensor

To measure exterior temperature sensors in conjunction with the Outside Sensor Box.

Product benefits
- Sub Controller.
- Highly resilient and durable by precision bearing.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>515 × 240 mm, max. ø-mast: 48 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>5 × 1.5 mm²</td>
</tr>
</tbody>
</table>
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 easy and solid wiring to the Outside Sensor Box.

**Sensor Station extended**
- The Sensor Station extended consists of an aluminium 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** (w × h × d) 24 × 88 × 47 mm
- Degree of protection: IP 63
- 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. 9 134 043

**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.

**Dimensions** (w × h × d) 230 × 100 × 100 mm
- Degree of protection: IP 63
- Wiring recommendations: 2 × 0.8 mm
- Angle position: 150°

**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: B
- Operating voltage: 230 V AC
- Operating temperature: 0°C to +45°C
- Inside Sensor Box
- Ref. 9 013 614

**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

**RS485 Network Power Supply**
- A component designed to power animeo 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) 112 × 200 × 72 mm
- Degree of protection: IP 20
- Operating voltage: 90 V AC – 260 V AC
- Output voltage: 24 V DC
- Output current: 1 A

**BMS Interface**
- Provides communication between Building Management Systems and Somfy motorized shading systems via 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 indication providing information about the status of the product, the normal operation or a system error.

**Dimensions** (w × h × d) 115 × 92 × 41 mm
- Degree of protection: IP 20
- 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. 9 018 004
**animeo IP/RS485**

### Sensors and accessories

#### RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

**Product benefits**
- Easy plug in RS45.

**Dimensions (w × h × d)**
- 11.7 × 21.5 × 7.9 mm

**Operating temperature**
- -30°C to 90°C

**RS485 Terminator**
- Ref. 9 019 105

#### 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
- Overides automatic functions

**animeo IP web remote license key**
- Ref. 9 019 244

### 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.

**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 fulfill all commands accessible at the front.

**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.**

### Sensors and accessories

#### RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

**Product benefits**
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- 117 × 79 × 24 mm

**Degree of protection**
- IP 30

**RS485 Setting Tool**
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**Further features**
- Control up/down position
- Control slat position
- Display of blind position
- Overides automatic functions

**animeo IP web remote license key**
- Ref. 9 019 244

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**For flush-mounted installation.**

### Sensors and accessories

#### RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

**Product benefits**
- Easy plug in RS45.

**Dimensions (w × h × d)**
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- Ref. 9 019 105

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- Display with 2 lines (16 characters per line) RJ45 female connector for fast connection.

**Dimensions (w × h × d)**
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**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
- Overides automatic functions

**animeo IP web remote license key**
- Ref. 9 019 244

### Local wall controls

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- Interchangeable buttons to match selected preset.
- Single or multi-gang compatible.
- Standard Decora® size.
- Inputs on the back to connect standard switches to fulfill all commands accessible at the front.

**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.**
Motors

Sonesse30 RS485

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

- Type of head: Thin
- Diameter: 28 mm
- 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

Ref. 1 000 658

Sonesse50 RS485

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

- Type of head: Star
- Diameter: 47 mm
- 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

Ref. 1 002 382

LT50 RS485

The quietest and strongest motor on the market.

- Type of head: Star
- Diameter: 47 mm
- 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: Adjustable speed from 6 to 28 rpm
- Torque: 2 Nm
- Limit Switch Unit: Digital

Ref. 1 002 566

Ref. 1 134 022

Sonesse Ultra AC & DC

- Type of head: AC, DC
- Diameter: 47 mm
- Degree of protection: IP 31, IP 20
- 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

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 your local Somfy partner.

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

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.

Product example

80

81
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
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

**Local control options**
- Push button input
- Universal binary input
- Local radio control or radio control via KNX

**Building Controllers | 1 to 16 zones**
- KNX BUS
- Max 8×
- Max 2×
- KNX Operating software
- Master Control W8
- Master Control W2

**Motor Controllers**
- KNX RTS 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

**Pluggable radio modules**
- Radio Receiver

**Weather Station**
- M8/M13

**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.

**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.
Building Controller

**animeo KNX Master Control W2/W8**

The animeo KNX Master Control W2/W8 is a building controller which enables a zone-based shadow tracking of 16 or more façade areas for a selection 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.

**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 façades or the complete building over the user interface.

**Dimensions (w × h × d)**

<table>
<thead>
<tr>
<th>W2</th>
<th>W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>380 × 182 × 110 mm</td>
<td>380 × 254 × 110 mm</td>
</tr>
</tbody>
</table>

**Operating voltage**
- 24 V AC

**Operating temperature**
- 0° C to + 55° C

**Ref. 1 860 187**

**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, sunlight is utilised as a natural source of energy.
- The animeo KNX Operating Software can be used independently of the ETS programming tool.
- The Somfy service includes full preparation of the project-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, outside 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 integrated freely on the KNX bus.
- Automatic functions can be allocated by the user selectively and can be overridden.
- Monitoring of all weather data for energy optimisation.
- 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.
- 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.

**Building Controller**

**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.

**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)**

<table>
<thead>
<tr>
<th>W2</th>
<th>W8</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 × 175 × 50 mm</td>
<td>100 × 240 × 150 mm</td>
</tr>
</tbody>
</table>

**Supply voltage**
- 240 V AC / 50/60 Hz

**Operating temperature**
- 0° C to + 45° C

**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.
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.

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

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.
- Clear, self-explanatory ETS index cards.
- Configurable slat tilting speed for optimum user ergonomics.

**Further features**
- Position feedback per motor output during movement and when reaching the top and bottom end position.
- 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.

**Dimensions (w × h × d)**
255 × 180 × 61 mm

**Degree of protection**
IP 20

**Protection class**
II

**Operating voltage**
230 V AC

**Output voltage**
24 V DC

**Max. current consumption**
max. 2.1 A per output

**KNX 4 DC Motor Controller**

For interior blinds, interior Venetian blinds and windows.
To control 4 × 24 V AC 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**
II

**Operating voltage**
230 V AC

**Operating temperature**
0° C to + 45° C

**Output voltage**
24 V DC

**Max. current consumption**
max. 2.1 A per output

**Ref. 1 870 452**
For wall-mounted installation.

**KNX 4 AC Motor Controller DRM**

Ref. 1 860 114
For DIN-rail installation.

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

**KNX 4 DC Motor Controller DRM**

Ref. 1 860 116
For DIN-rail installation.
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.
- 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 6 x RJ45 Bridging Adapter
A component designed to facilitate the connection of RS485 Somfy Digital Network devices on the RS485 network segment.

Dimensions (w × h × d) 101.3 × 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 A/U2 A Motor Controller PCB.

Dimensions (w × h × d) 70 × 125 × 23 mm
DIN-rail adapter Ref. 9 008 049

For wall-mounted installation.

RS485 Motor Controller
- Ideal for interior/exterior screens
- 24 V OR 230 V
- Plug and play RJ45 connector to integrate the motor data wire
- Cable tension relief points
- Housing suitable for any kind of installation: wall-mounted, DIN-rail, suspended ceiling, cable channel

Dimensions (w × h × d) 70 × 105 × 23 mm
DIN-rail adapter Ref. 9 008 049

For 35 mm DIN-rail, colour: black, 4 SUs
### Accessories

#### RTS Radio Receiver

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

- **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

**Ref. 1 860 292**

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#### KNX RTS Receiver

Radio receiver for retrofitting KNX 4 AT, 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

**Ref. 1 860 191**

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#### 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 input is freely definable.
- **Further features:**
  - Suitable for visible or non visible wall-mounting environments and on flush-mounted boxes.
  - Somfy RTS transmitters can be trained in via a display independent of the RTS software.
  - The device is powered over the KNX bus network.

**Ref. 1 860 105**

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### Sensors and accessories

#### Weather Station M8/M13

- **Product benefits:**
  - 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.
- **Further features:**
  - 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.

**Ref. 1 860 306**

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#### Metallic Mast for Weather Station M8/M13

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

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

**Ref. 9 025 706**

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#### Bracket for Weather Station M8/M13

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

- **Dimensions (w × h × d):** 180 × 90 × 80 mm
- **Bracket for Weather Station**
  - Ref. 1 860 320

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#### Weather Station M13

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

**Ref. 1 860 320**

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#### RIB 48S

- **Electronic lightning protection power supply**
  - Ref. 9 025 707

**Ref. 9 025 706**

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#### Wall Mount Bracket

- **Dimensions (w x d x h):** 250 × 90 × 30 mm
- **Mast Adaptor for Weather Station**
  - Ref. 1 860 321

**Ref. 9 027 035**

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#### Wall Mount Bracket

- **Dimensions (w x d x h):** 90 mm, 25/50 mm

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#### Electronic lightning protection

- **Dimensions (h, Ø):**
  - 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.

**Ref. 1 860 306**
Sensors and accessories

**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**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>235 × 207 × 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 44</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>24 V AC/DC</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10°C to +70°C</td>
</tr>
</tbody>
</table>

Outside Sensor Box
Ref. 9 001 606
For wall-mounted installation.

**Power Supply DRM 24 V 1.5 A**
To supply the Outside Sensor Box (without heated sensors) or the animeo KNX Compact Sensor.

**Dimensions**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>78 × 93 × 56 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>240 V DC</td>
</tr>
<tr>
<td>Output current</td>
<td>1.5 A</td>
</tr>
</tbody>
</table>

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

---

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

**Dimensions**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>110 × 130 × 61 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Protection class</td>
<td>II</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>230 V AC</td>
</tr>
<tr>
<td>Output current</td>
<td>2.5 A (switch on duration 100 %) 4.5 A (switch on duration 50 % 3 min. on, 3 min. off)</td>
</tr>
</tbody>
</table>

animeo Power Supply DC
Ref. 9 016 345
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**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>200 mm, ø 240 mm max. ø-mast 48 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>3 × 0.8 mm</td>
</tr>
</tbody>
</table>

Wind Sensor
Ref. 9 016 345

---

**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. 9 001 606).
- Delivered with a 2.30 m cable (2 x 0.75 mm²).

**Dimensions**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>115 × 320 × 85 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 65</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>2 × 0.8 mm</td>
</tr>
</tbody>
</table>

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

---

**Heatied 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**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>190 mm, ø 240 mm max. ø-mast 48 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>5 × 1.5 mm</td>
</tr>
</tbody>
</table>

Heated Wind Sensor
Ref. 9 140 180

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**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**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>235 × 207 × 90 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 54</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>3 × 1.5 mm</td>
</tr>
</tbody>
</table>

Wind Direction Sensor
Ref. 9 013 807

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**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 KNX Master Control W2/W8 solution.
- Protective housing to prevent measurements influenced by spiders and birds.
- Delivered with solar radiation sensor protective housing.

**Dimensions**
<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>150 mm, ø 115 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 65</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>2 × 0.8 mm</td>
</tr>
</tbody>
</table>

Outside Temperature Sensor
Ref. 9 001 612

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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 safe and solid wiring to the Outside Sensor Box.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>34 × 88 × 47 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 43</td>
</tr>
<tr>
<td>Wiring recommendations</td>
<td>2 × 0.8 mm</td>
</tr>
<tr>
<td>Angle position</td>
<td>150°</td>
</tr>
</tbody>
</table>

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, 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.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>3200 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Station extended Ref. 9 013 727</td>
<td></td>
</tr>
</tbody>
</table>

Sensor Station extended

The Sensor Station extended consists of an aluminium 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.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>3200 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Station extended Ref. 9 013 727</td>
<td></td>
</tr>
</tbody>
</table>

RS485 Terminator

A RS485 component designed to terminate RS485 network segment.

Product benefits
- Easy plug in RJ45.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>11.7 × 21.5 × 7.9 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>-30°C to +50°C</td>
</tr>
<tr>
<td>RS485 Terminator</td>
<td>Ref. 9 019 005</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>18 × 90 × 56 mm (1 SU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-5°C to +45°C</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>External supply 12 - 24 V AC / 12 - 30 V DC</td>
</tr>
<tr>
<td></td>
<td>Alternative: Power - over - Ethernet</td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt; 800 mW</td>
</tr>
</tbody>
</table>

KNX IP Router

The KNX/IP router enables telegrams to be forwarded between different lines through a LAN (IP) as a fast backbone.

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>18 × 90 × 56 mm (1 SU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-5°C to +45°C</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>External supply 12 - 24 V AC / 12 - 30 V DC</td>
</tr>
<tr>
<td></td>
<td>Alternative: Power - over - Ethernet</td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt; 800 mW</td>
</tr>
</tbody>
</table>

RS485 Terminator

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>10.8 × 9.0 × 61 mm (6 SU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-5°C to +45°C</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>Mains voltage 230 V AC/50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt; 3.2 W (idle) / &lt; 48 W (full load)</td>
</tr>
</tbody>
</table>

KNX IP Line Master

The KNX Line Master combines the essential functions of a KNX bus line: power supply with choke, IP router and IP interface.

In addition to the bus voltage the power supply offers an auxiliary voltage of 24 V. The IP router in the Line Master enables telegrams to be forwarded between different lines through a LAN (IP) as a fast backbone.

Using the embedded IP interface, the KNX line can be connected directly to a PC (e.g. by ETS).

<table>
<thead>
<tr>
<th>Dimensions (w × h × d)</th>
<th>118 × 90 × 61 mm (6 SU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-5°C to +45°C</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>Mains voltage 230 V AC/50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt; 3.2 W (idle) / &lt; 48 W (full load)</td>
</tr>
</tbody>
</table>

KNX IP Line Master Ref. 9 018 249
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 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**

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 frames**

- Pure
- Silver
- Lounge
- Black
- Metallic
- Wood finishes
- Amber glass
- Other finishes

Adapter disc for other switching programs: Not available

**Smoove 1 RTS**

- Pure
- Silver
- Lounge
- Black
- Metallic
- Wood finishes
- Amber glass
- Other finishes

**Smoove IB Origin**

For flush-mounted installation.

**Smoove 1 RTS Origin**

For wall-mounted installation.

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**Local controls**

**Telis 1 RTS**

1 channel handheld radio transmitter, control of one or several motors by radio.
Telis 1 RTS = 1 channel: single or group operation possible.

**Telis 1 Modulis RTS**

1 channel handheld radio transmitter, manual control of one or several Venetian blind motors by radio.
Comfortable manual alignment of the slats using the scroll wheel.

**Telis 4 RTS**

5 channel handheld radio transmitter, manual control of one or several motors by radio.
Telis 4 RTS = 5 channels: single or group operation possible.

**Telis 4 Modulis RTS**

5 channel handheld radio transmitter, manual control of one or several Venetian blind motors by radio.
Comfortable manual alignment of the slats using the scroll wheel.
Telis 4 Modulis RTS = 5 channels: single or group operation possible.
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.

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 comfort 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

Products installed
The PEPEncopassport® (Product Environmental Profile) is a document compiling all information on the environmental performance of products. It is the international reference program for environmental declarations of products from electric, electronic and heating & cooling industries.

Our PEPs are available on www.pep-ecopassport.org.

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