



# animeo® IP Building Controller

Part #1822314

## OVERVIEW

The animeo® IP Building Controller is an integrated hardware and software control point for Somfy Digital Network™ (SDN) installations. The Building Controller provides dynamic solar management using Somfy powered motorized window coverings and climate information provided by real-time weather sensors. The Building Controller features an intuitive graphical user interface to simplify programming, commissioning, operation and system status. For larger installations, the Building Controller's capacity can be expanded with the addition of the animeo® IP Sub Controller (#1860201).

The Building Controller features an integrated router for IP connectivity, which allows for a stable network connection between the Building Controller and Sub Controller(s). Connecting the Building Controller to the site's LAN allows for remote servicing and occupant-facing virtual keypads. The Building Controller is suitable as a stand-alone control solution for both new and existing SDN installations as well as part of third party BMS systems using the Somfy Connect BMS Interface.



## SOMFY DIGITAL NETWORK SYSTEM OVERVIEW

Somfy Digital Network™ (SDN) is Somfy's intelligent wired shading network. An SDN system is comprised of bus distribution devices that create a network for user interfaces, motorized applications and sensors to be connected. SDN is scalable, and suitable for both small and large projects, and the same components are used whether an SDN system remains standalone, integrated into third party automation systems, or with Somfy's animeo® IP automated total solar management system.

## ANIMEO IP SYSTEM OVERVIEW

animeo® IP is a total solar management system utilizing Somfy-powered intelligent motorized window coverings as well as digital keypads and weather sensors. The system's controllers, sensors and keypads can be added to both new and existing Somfy Digital Network installations for comprehensive solar management as either a stand-alone solution or integrated into third party control systems.

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

Every animeo IP installation includes an animeo IP Building Controller that supports up to 200 motors. Animeo IP is a scalable system and network capacity is expanded by adding one Sub Controller for each additional group of 200 motors. For systems exceeding 1000 motors the Building Controller is configured to only manage network traffic and not have any direct motor connections. The animeo IP Controller resides on a standard Somfy Digital Network (SDN) bus. Proper SDN system design must be respected for optimal animeo IP performance.

## TECHNICAL SPECIFICATIONS

|                                                                          |                                          |
|--------------------------------------------------------------------------|------------------------------------------|
| Input                                                                    | Universal power supply 110V AC – 240V AC |
| Power Consumption                                                        | 1.25 Amps                                |
| Material                                                                 | ABS                                      |
| Dimensions                                                               | 6 7/8" W x 4" H x 1 3/4" D               |
| ARM-based processor                                                      |                                          |
| Internal OS                                                              | Linux™, Client OS: Windows 7 or higher   |
| Dual SDN Bus (dedicated Motor & Sensor buses)                            |                                          |
| Dedicated IP Bus with integrated router                                  |                                          |
| Integrated upgradeable 1GB flash storage                                 |                                          |
| Self-calibrating, hardware real-time clock with battery backup           |                                          |
| Dry Contact input & output for third party integration and alarm systems |                                          |
| Shipping Weight                                                          | 1 lb.                                    |

## RELATED ACCESSORIES

- animeo IP Sub Controller 1860201
- Bus & Sensor Station Power Supply 1822440
- animeo IP DecoFlex 6-Button White \* 1049424
- animeo IP DecoFlex 8-Button White \* 1049425
- RTS Receiver for animeo IP 1049434
- Sensor Station Mast 9013726
- Compact Sensor Station 9015047

\* Other color options are available

## FEATURES SUMMARY

- Solar depth entrance management for dynamic facade control
- Sensor-threshold-based motor control
- Accurate time & astronomic motor control
- Network-based motor control with user account access
- Facility manager access to global system status & control
- Integration-ready for third party control systems and BMS systems
- System autodiscovery of motors, sensors and keypads
- IP connectivity for Sub Controller connections, virtual keypads, remote access and programming
- Windows 7-based drag-and-drop setup, configuration & operation
- System can be expanded with the addition of a Sub Controller

## COMPLIANCE SPECIFICATIONS

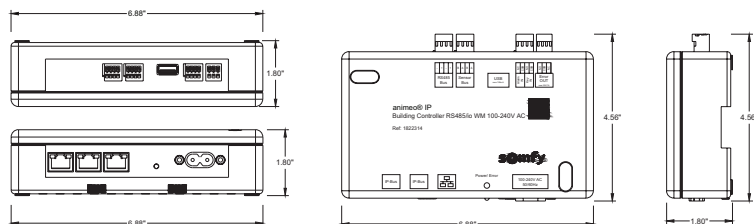
|                                   |                              |                     |
|-----------------------------------|------------------------------|---------------------|
| UL Listed                         | NEMA Index Protection Rating | IP20                |
| CE Approved                       | Operating Temperature Range  | Ambient Temperature |
| IEC Appliance Protection Class II | Operating Relative Humidity  | 85%                 |
| SEQR Type 1 Action                |                              |                     |

## WHAT'S IN THE BOX

- animeo IP Building Controller
- Power Cable
- Instructions

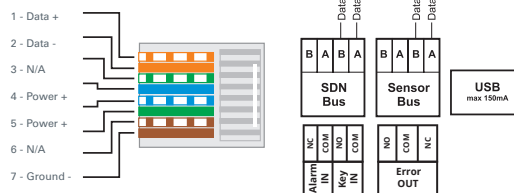
# animeo® IP Building Controller

## DIMENSIONS



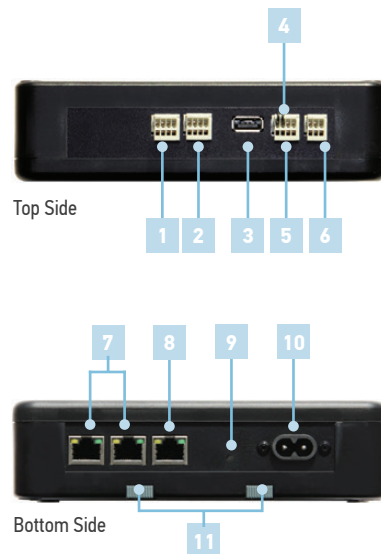
## CABLE PINOUTS

### SDN Cable Pinout (RJ45 connector) ANSI/TIA/EIA 568-B Standard



## CONNECTIONS AND INDICATORS

| ELEMENT | FUNCTION               |
|---------|------------------------|
| 1       | SDN Bus                |
| 2       | Sensor Bus             |
| 3       | Service                |
| 4       | Alarm Input            |
| 5       | Key In                 |
| 6       | Error Out              |
| 7       | animeo IP Network      |
| 8       | External Network       |
| 9       | Status Indicator       |
| 10      | Power Input            |
| 11      | Din-rail mounting pins |



## BEST WIRING PRACTICES

- Alarm Input/Key IN/Error OUT: Use two conductor 20-24 AWG cable
- ALL Connections Below: Category 5 or higher cable with a T568B pinout configuration
- SDN Bus: Wiring length to start of SDN bus should not exceed 30 ft
- Sensor Bus: The sensor bus should not exceed 4,000' in total wire length
- External IP Network: The external IP network cable should not exceed 330 ft
- animeo IP Network: The animeo IP network cable should not exceed 330 ft
- Max 200 Motors, but can be expanded to more using a Sub Controller

The diagram shown below is meant for illustrative purposes to show the connections from product to product. This device could be used in other configurations than shown below. For specification information on individual products see related product information. Follow all SDN wiring standards for distance limitations.

