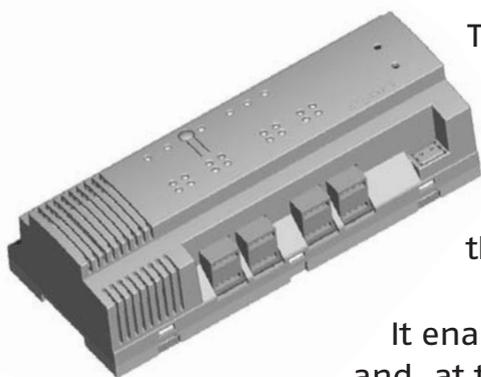


# animeo® IB+ Building Controller Concentrate of intelligence .....



Building Controller

The Building Controller is the brain of the whole animeo IB+ system. Through the communication with the PC, with the sensor boxes and with the Motor Controllers, the Building Controller manages the blinds and windows according to the architecture of the building and the climatic conditions.

It enables a mix control between the occupant comfort and, at the same time, the global management of the building such as energy savings.

## > Application

- Control of 8 zones of Motor Controllers according to data coming from the sensor Boxes and the configuration made by PC
- Up to 16 zones with a 2nd Building Controller
- Dry contacts inputs



Complete management of the blinds and windows according to the architecture of the building and the climatic conditions

Adaptation to any type of building architecture

Functional link with the heating, air-conditioning and alarm systems

## > Installation

- Electrical cabinet housing (12 DIN rail modules)
- Colour code of connectors
- Symbols on the housing
- Screwless terminals



Adaptable to the market standard

Ensures the correct wiring

Easy installation

Fast installation

## > Configuration

- Configuration by PC
- No operation on the Building Controller
- No need of PC after system configuration



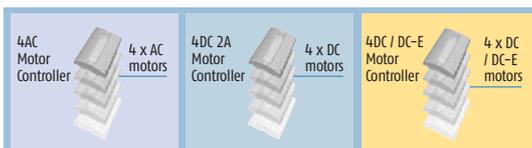
User-friendliness of a PC screen

Only one configuration access

Autonomous system

## > Usage / Operation

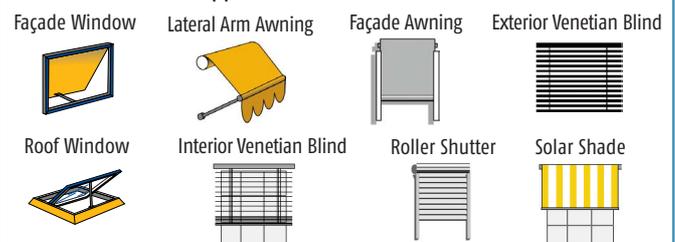
- Control of 3 types of Motor Controllers:
  - 4 AC
  - 4 DC-2A
  - 4 DC-DCE (for DC Encoder motors)



- Inputs for a functional link with the heating and air-conditioning systems and with the building alarm
- Management of 3 operational modes:
  - User comfort
  - Energy saving
  - Performance
- Visualization by LED of the status of inputs and outputs
- 1 input for local control of the whole building by a fixed wired switch



Cover of all kinds of application



Consideration of the other systems of the building

Optimizes of the occupant visual and thermic comfort  
Reduces of the operating costs of a building  
Mix between comfort and operating costs

Easy monitoring without PC

Perfect compatibility with Inteo Centralis IB switch of SOMFY

## > Maintenance

- LED's on the housing
- Thermal fuse

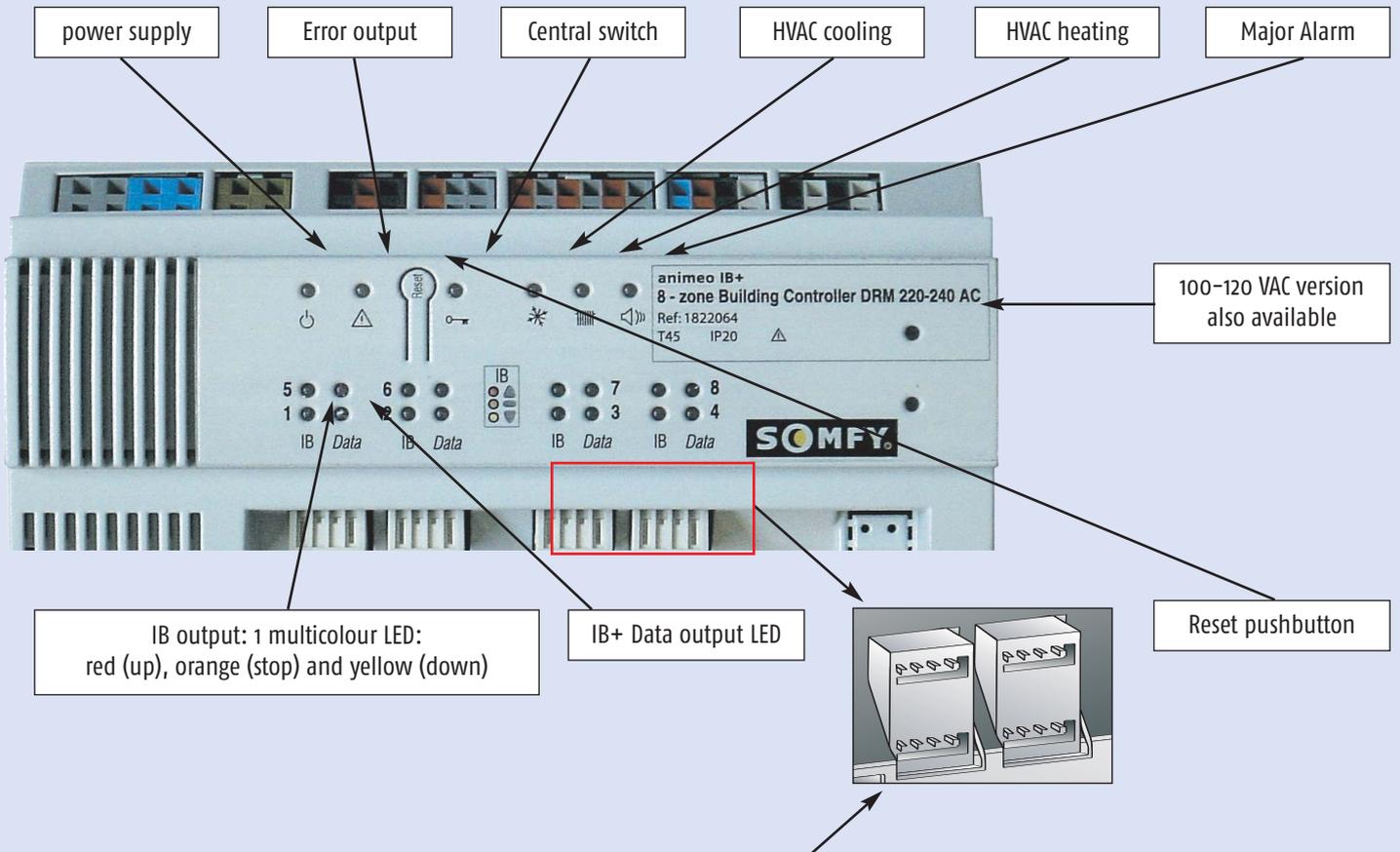


Easy troubleshooting like as broken wires or incorrect cabling

Automatic protection of the electronic

## Building Controller Interface

LED's active as long as input or output is active

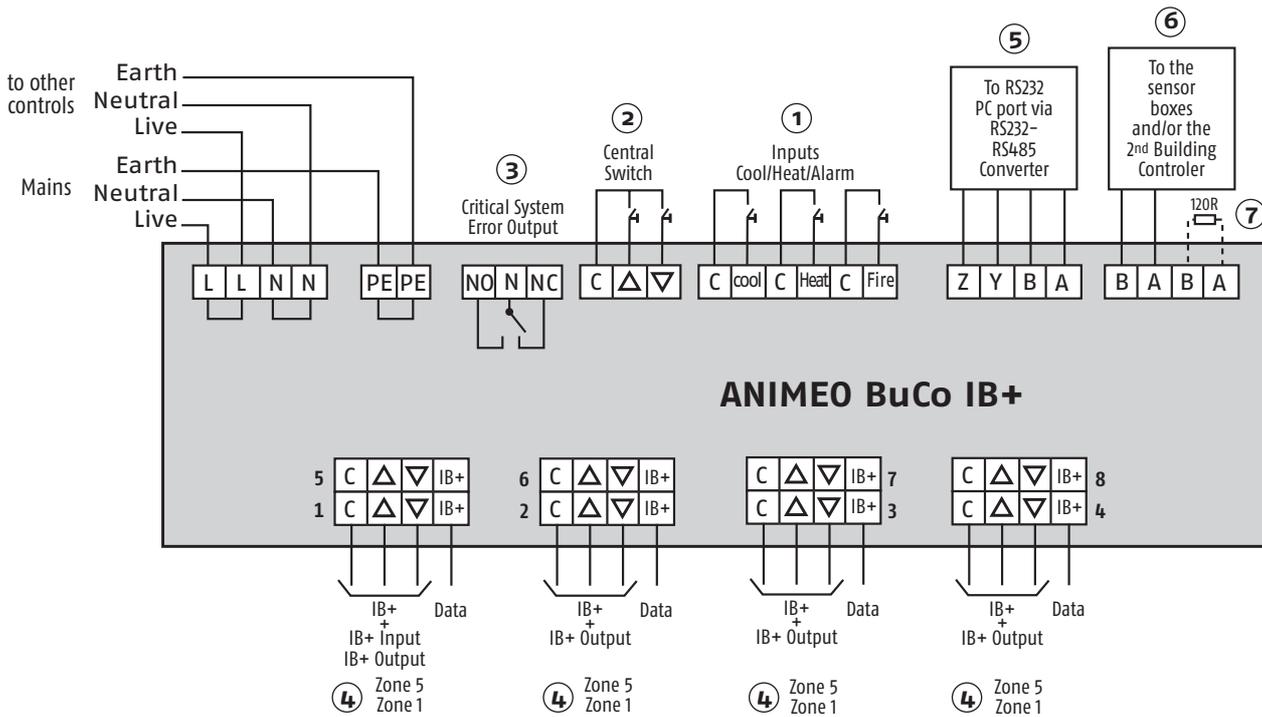


The IB and the Data LED's (1 to 8) are in the same arrangement that the IB+ output connectors.

No configuration required on the Building Controller level. All configuration settings are made via PC using the System Software and the Operating Software.

TECHNICAL SPECIFICATIONS		
Building Controller IB+		
Supply	Voltage	220 VAC - 240VAC      100 VAC - 120 VAC
	Frequency	50 Hz - 60 Hz
	Max. operating current (primary)	43 mA      86 mA
Mechanical Data	Housing	DIN Rail
	Length / Height / Width	12 TE = 210 mm / 63 mm / 90 mm
	Weight	660 g
	Plastic	type: CC-ABS polycarbonat
	Housing material	mass: 210 g Recyclable
Protection Class	IP20	
Inputs / Outputs	General	Short circuit secured
Inputs	Major alarm	To be controlled with normally closed contact
	HVAC Heating	To be controlled with normally open contact
	HVAC Cooling	
	Central switch	double pushbutton (C, UP, DOWN)
Potential free Output	Error	Dry contact, normally closed, 24 V / 1 A max.
Fuse	Thermal fuse	Self resetable fuse or Polyswitch
Temperature ranges	Operating temperature	0°C to 45°C
	Storage temperature	-20°C to 70°C
	Relative humidity	85%
EMC	EN 60 730-1	
Standards compliance	EN 60 730-1, IEC 730 (electric safety devices), EN 60 721-3-1/2	
Approvals	ENEC 10, UL	

## Wiring diagram ANIMEO BuCo IB+



### ① Inputs of the Building Controller

- 'Major alarm' dry contact: is the highest priority and it forces the end-product to be completely (up or down for shades, closed or opened for windows, in or out for awnings according to the settings made via the Operating Software.
- 'HVAC cooling' dry contact: moves the windows to the position given in the Operating Software to ventilate the building.
- 'HVAC heating' dry contact: if the outside sun intensity is high enough, it moves the shades to the position given in the Operating Software to benefit from solar heat gain.

- ② • 'Central Switch' dry contact: enables to control all the end-products of the building via a master command.

### ③ Outputs of the Building Controller

- 'Critical System Error': is used to indicate something is going wrong in the system as sensors not connected, Major alarm input error, Building Controller memory error, ... (see 'Operating Software Owners manual')

#### Networks:

④ IB+

⑤ RS485 4 wires

⑥ RS485 2 wires

### ⑦ Resistance of 120 Ohms

Only at the beginning and at the end of the RS485 2 wires network (see 'animeo the technologies' leaflet). If the Building Controller isn't at the beginning or at the end of the network, this output is used to connect the other devices of the RS485 2 wires network.

Connection	Maximum distance	Type of cable	
		Section / AWG	Twisted pairs
①	100 m	Min. : 2 x 0.6mm <sup>2</sup> / 19 AWG Max. : 2 x 2.5mm <sup>2</sup> / 13 AWG	–
② & ③	100 m	Min. : 3 x 0.6mm <sup>2</sup> / 19 AWG Max. : 3 x 2.5mm <sup>2</sup> / 13 AWG	–
④	1 000 m	Min. : 4 x 0.6mm <sup>2</sup> / 19 AWG Max. : 4 x 1.5mm <sup>2</sup> / 16 AWG	Recommended (2 x 2)
⑤	1000 m	Min. : 4 x 0.6mm <sup>2</sup> / 19 AWG Max. : 4 x 0.8mm <sup>2</sup> / 18 AWG	Obligatory (2 x 2)
⑥	500 m	Min. : 2 x 0.6mm <sup>2</sup> / 19 AWG Max. : 2 x 0.8mm <sup>2</sup> / 18 AWG	Obligatory