

# animeo® IB+ Outside Sensor Box

Listening out to  
the weather



Outside Sensor Box

The Outside Sensor Box is the interface between the external sensors and the Building Controller of the animeo IB+ solution.

It centralises the sensor data to transmit the measured values to the Building Controller.

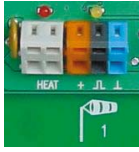
This Outside Sensor Box enables an important simplification of cabling between the inside and the outside devices of the building solution. The proof is: there is only 1 data cable and 1 supply cable between the both devices.

With the weather data coming from the sensors, it becomes possible to consider the architecture of the building for its climatic management.

To guarantee a proper operation for the Animeo IB+ system, all the measured values are filtered respectively and checked on plausibility before being sent to the Building Controller.

## Sensors

With the Outside Sensor Box, it is possible to measure the wind speed, the outside temperature, the wind direction, the sun intensity, to detect the rain and to pick up the clock which is emitted from Frankfort (Digital Clock from Frankfort) = DCF.



Thanks to symbols and the colour code of the connectors, the connection of the sensors is very easy.

The sufficient space in the Box enables a real fast cabling.

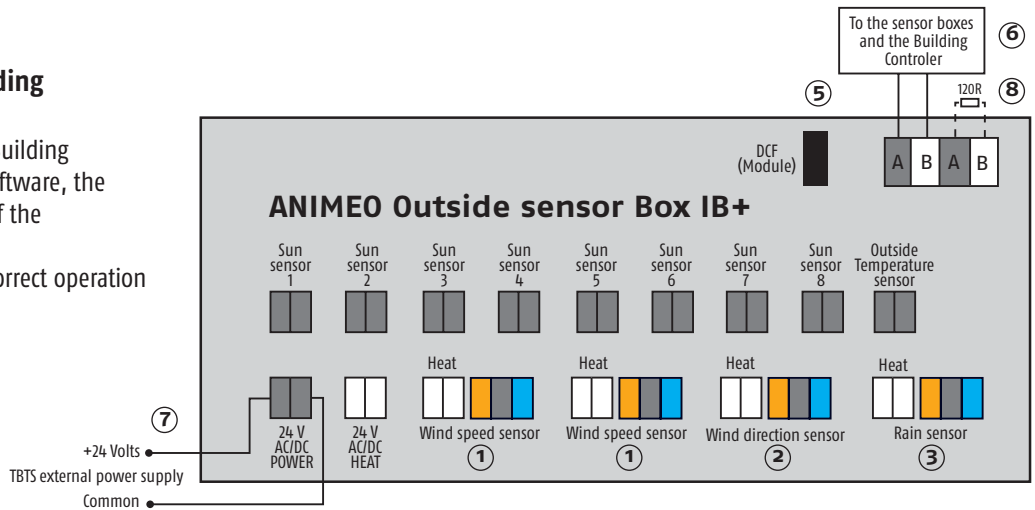
## Outside Extension Sensor Box

To increase the functionalities of the system, an extension is possible with the Outside Extension Sensor Box and it enables e.g. to make measurements in specific locations of the building where you can measure the wind speed and the sun intensity.

## Communication with the Building Controller

- Through the configuration of the Building Controller with the animeo IB+ Software, the sensors are affected to any zone of the building.
- The Building Controller tests the correct operation of the sensors permanently.

TECHNICAL SPECIFICATIONS			
Outside Sensor Box IB+			
Supply	Operating voltage	24 VAC/VDC	
	Frequency	50 Hz - 60 Hz	
	Standard current consumption with all standard sensors	1A	
	Maximum current consumption with maximum number of heated sensors	4A	
Mechanical Data	Length / Height / Width	255 mm / 210 mm / 100 mm	
	Weight	1080 g	
	Plastic	type: polycarbonat	
		mass: 830 g	
	Housing	Outside mounting, waterproof, UV proof	
	Housing material	Recyclable	
Type of mounting	Wall mounting or Sensorstation mounting		
Protection Class	IP65		
Inputs / Outputs	General	Implement Decoupling	
Potential free Inputs		Reference Product	Ref. Product mounted on sensor station
	Sun sensors (x8)	9154043	9001762
	Wind speed sensor (x2)	9001608	9001763
	Wind direction sensor (x1)	9001609	9001764
	Rain (x1)-Potentially free	9001610	9001761
	Outside temperature sensor (x1)	9001611	9001765
	DCF77 (Synchronized clock)	9001612	
Accessory	Lightning protection 24V	reference: 9001629	
	Lightning protection Communication	reference: 9001630	
Temperature ranges	Operating temperature	-30°C to 70°C	
	Storage temperature	-30°C to 70°C	
	Relative humidity	85%	
EMC	EN 50 081/2 - 1		
Standards compliance	EN 60 721-3-1/2		



Connection	Maximum distance	Type of cable (for default sensors)	
		Section / AWG	Twisted pairs
①	100 m	Min. : 3 x 0.6 mm <sup>2</sup> / 19 AWG Max. : 3 x 2.5 mm <sup>2</sup> / 13 AWG	Recommended
②		Min. : 2 x 0.6 mm <sup>2</sup> / 19 AWG Max. : 2 x 2.5 mm <sup>2</sup> / 13 AWG	
③		Min. : 3 x 0.6 mm <sup>2</sup> / 19 AWG Max. : 3 x 2.5 mm <sup>2</sup> / 13 AWG	
④		Min. : 2 x 0.6 mm <sup>2</sup> / 19 AWG Max. : 2 x 2.5 mm <sup>2</sup> / 13 AWG	
⑤		<b>Plugable module</b>	
⑥	500 m	Min. : 2 x 0.6 mm <sup>2</sup> / 19 AWG Max. : 2 x 0.8 mm <sup>2</sup> / 18 AWG	obligatory
⑦	100 m (for 2A)	Min. : 2 x 1.5 mm <sup>2</sup> / 16 AWG Max. : 2 x 2.5 mm <sup>2</sup> / 13 AWG	-

⑧ Resistance 120 Ohms : Only required at the beginning and at the end of the RS485 2 wires network