

BLADEcontrol®

Rotor blade monitoring for wind turbines

Transport and storage



BLADEcontrol®
CONDITION MONITORING SYSTEM

Transporting the BLADEcontrol® and assembly equipment

- Only ever use stable boxes or shipping cartons for transport.
- During transportation, avoid impacts to the BLADEcontrol® system components and its attachment parts.

Transport

Conditions for transporting the BLADEcontrol® components

Temperature	-40...85 °C
Relative humidity	5...100 %
Climate class	2K3 acc. to IEC 721
Condensation	permissible
Icing	permissible
Shock test out of operation as per EN 60068-2-27	Half-sine in 3 axes: 10 g / 11 ms

Conditions for transporting the Sikaflex 292i

Temperature	-30...45 °C
Container condensation	permissible
Container icing	permissible

Storing the BLADEcontrol® and assembly equipment

- It is not generally permitted to store the BLADEcontrol® outdoors!

Storage

Conditions for storing the BLADEcontrol® components

Temperature	-20...60 °C (-40...85 °C for sensors BCA4*)
Relative humidity	5...100 %
Condensation (on the packaging)	permissible
Icing	permissible

Note:

The packaging is not water-tight.
Components should only ever be stored in dry environments.

Conditions for storing the Sikaflex 292i

Temperature	-25...35 °C
Container condensation	permissible
Container icing	permissible
Shelf life	10 months from delivery

Note:

Sikaflex 292i must only ever be stored in the original containers. It should be stored in a cool, dry environment, protected against direct sunlight. Local conditions must be complied with.

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BLADEcontrol®

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Technical data

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Protection class	ECU V5.1 and higher	n.a.
	HMU V2.7 and higher	IP66 acc. to EN 60529
	BCA4*	IP67 acc. to EN 60529
Ambient temperature - in operation	ECU V5.1 and higher	-30...65 °C
	HMU V2.7 and higher	-30...65 °C
	BCA4*	-30...65 °C
Ambient temperature - active but not in operation	ECU V5.1 and higher	-40...70 °C
	HMU V2.7 and higher	-40...70 °C
	BCA4*	-40...85 °C
Ambient temperature - passive or in storage	ECU V5.1 and higher	-20...60 °C
	HMU V2.7 and higher	-20...60 °C
	BCA4*	-40...85 °C
Relative humidity	ECU V5.1 and higher	5... 95 %
	HMU V2.7 and higher	5...100 %
	BCA4*	5...100 %
Corrosion class	ECU V5.1 and higher	n.a.
	HMU V2.7 and higher	C3 acc. to EN ISO 12944
	BCA4*	C4 acc. to EN ISO 12944
Max. height for operation	ECU V5.1 and higher	3.200 m
	HMU V2.7 and higher	4.000 m
	BCA4*	4.000 m
Power supply	ECU V5.1 and higher	24 V DC +/- 20 %
	HMU V2.7 and higher	24 V DC +/- 20 %
Power consumption - typical	ECU V5.1 and higher	≤ 17 W (@24 V DC) typical
		≤ 60 W (@24 V DC) maximum <120 ms
		≤ 60 W (@24 V DC) cold start @< -20 °C for <3 min
	HMU V2.7	≤ 12 W (@24 V DC)
	BCA4*	≤ 50 mW
Weight	ECU V5.1 and higher	1,140 (+/- 0,050) kg
	HMU V2.7	7,10 (+/- 0,10) kg
	BCA401b hub sensor	0,165 (+/- 0,010) kg
	BCA403b blade sensor	0,190 (+/- 0,010) kg
	(optional) BCA423 insulated blade sensor with cable	0,920 (+/- 0,050) kg + 0,32 (+/- 0,050) kg/m
	BSC101* sensor cable	0,060 (+/- 0,050) kg/m
Dimensions and properties	ECU V5.1 and higher	Housing: aluminium with cooling fins
		Dimensions: 190x140x60 mm (incl. connections)
	HMU V2.7	Housing: 1.25 mm steel sheet, powder-coated
		Dimensions: 500 x 230 x 125 mm
	BCA40*	Housing: 2 mm diecast aluminium
		Dimensions: 77 x 50 x 31 mm
	BSC101* sensor cable	4xAWG22 shielded, 1,5 mm PUR sheathing
		Dimensions: Ø7,0 (+0,2/-0,2) mm
Note:	BCA*, whereby * indicates the variant and/or configuration, which is dependent upon the particular turbine and/or the system type.	