

Wind Solutions

# **BLADEcontrol<sup>®</sup> Rotor Blade Monitoring**

Get the most out of your system



**Weidmüller** 



# BLADEcontrol®

## The intelligent rotor blade monitoring

Weidmüller's BLADEcontrol® rotor blade monitoring system has been successfully used to increase the yield of wind turbines since 2004.

### Condition Monitoring System

With BLADEcontrol® you can detect even the smallest damage to rotor blades, e.g. blade tip damage caused by lightning strikes, trailing edge cracks, web separation, bonding defects or blade bearing damage. This is achieved by measuring inside the blade, at the point where the damage occurs.

- Reduction of life cycle costs through reduction of repair and downtime costs
- Yield optimization through early detection of rotor blade misalignment
- Value preservation through permanent condition monitoring
- Lightning current resistant, high-precision sensor technology

### Ice Detection

BLADEcontrol® stands for reliable ice detection. The highly precise and certified system reports ice build-up in the millimetre range, even at standstill. The automatic stop and restart after ice clearance minimises yield loss.

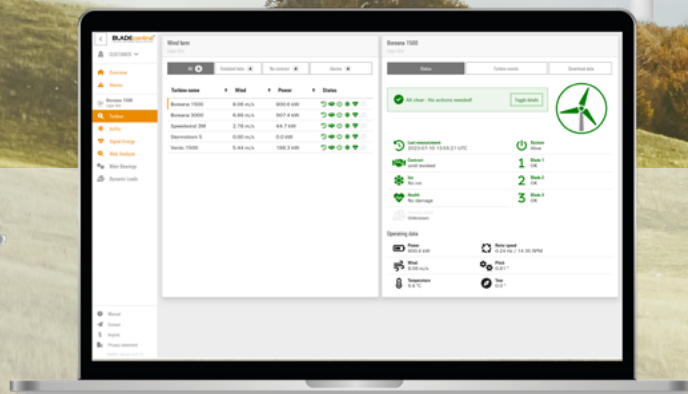
- High availability of the wind turbines at low outside temperatures
- Yield maximisation through Reduction of downtimes
- Avoidance of ice shedding to comply with licensing requirements
- Control of leaf heaters
- Sensors in the root area of the rotor blades
- Tested and certified since 2008

### Monitoring Services

Our condition monitoring services guarantee a reduction in unplanned downtime and the safe and efficient operation of your plants.

We are experts for the monitoring of your wind turbines and support you through our monitoring specialists.

- Continuous data collection and information on the condition of the rotor blades 24/7
- Easy access to data, analyses and information via our online platform WebVis
- Permanently enhanced analysis software for damage detection
- Optimal planning of repairs through timely information on potential damage





## BLADEcontrol® at a glance

Our expertise - your success




**420**  
Offshore



**6.180**  
Onshore

More than **>28.100**  
machine years of **experience**



Certification  
**CMS System**



Global  
in **33 countries**



Certification  
**Ice Detection**

**>19.800**

Blades equipped with  
a **BLADEcontrol®**  
sensor.



**2.500**  
Turbines in monitoring

**Certification:**  
**DNV | ISO 9001:2015**

You can find more information on our certification here:  
[www.weidmueller.com/bladecontrol](http://www.weidmueller.com/bladecontrol)



## **Weidmüller – Your partner in Smart Industrial Connectivity**

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. On demand we can also send the general terms of delivery to you.

### **Germany**

Weidmüller Monitoring Systems GmbH  
Else-Sander-Str. 8  
01099 Dresden, Germany  
Telefon +49 351 213916 - 50  
Telefax +49 351 213916 - 55  
[monitoring.systems@weidmueller.com](mailto:monitoring.systems@weidmueller.com)  
[www.weidmueller.com/bladecontrol](http://www.weidmueller.com/bladecontrol)

More locations:

**Brazil, China, India, Japan, USA**

You can find all worldwide  
locations on our website:



Made in Germany

09/2023/SMM