

the power to control

bachmann.

# Always running – nonstop

VeAccess gives you remote control of VESTAS turbines.



APPROVED FOR

**Vestas**

V80/90

# So far, yet so close

Technology doesn't just save distance, it saves time

Wind turbine operators are increasingly facing challenges as they can only access the turbine and operating data necessary for fault analysis when they are on site. Without remote access, even resetting simple faults is not possible. In addition, on-site deployment cannot be planned efficiently in terms of the equipment required or the expertise needed to rectify faults.

Effective remote monitoring and intelligent retrofit solutions offer decisive added value here: they not only enable precise fault diagnosis from a distance, but also targeted remote control and troubleshooting – without cost-intensive on-site service calls. This saves time, reduces operating costs and significantly increases system availability.

## Much more than just watching from a distance.

At the heart of this technology is the remote panel, which can be accessed from any location via a web browser. From here, you not only have the same access as on site via the Servicebox, but VeAccess also offers a wealth of additional information that is helpful for the actual assessment of the current system status.



SCADA-Extension

Remote functions of the wind energy generation system	Read access	Write access
Display: Operating states / data	✓	
Display: Logbooks and error lists	✓	
Display: Live data / chart display	✓	
Display: Parameter change	✓	✓
Function: Start / Stop / Reset		✓
Function: Manual operation of the system components		✓
Function: Reboot of the VOG (Vestas Overspeed Guard)		✓
Function: Enabling remote access by technicians in the nacelle	✓	✓
Function: Recording continuous data	✓	
Function: Reading out the switch position of the key switch (RCS, shift, local)	✓	



## Why watch over just one system?

The VeAccess system provides the basis for the connection to the forsiteSCADA system from Bachmann and thus enables convenient and secure fleet monitoring.

Further information  
on VeAccess can be  
found on our website.



## REMOTE SUPPORT = EFFICIENCY ON SITE



### **Fault analysis – from a distance**

From the control center, you have a complete overview of your systems, can carry out error analyses, and trigger multiple functional operations directly eliminating or better coordinating paths.



### **Service team support – from a distance**

Experienced technicians provide remote support to several service teams at once. This reduces downtime and prevents incorrect spare parts equipment.



### **System start – from a distance**

The Bachmann VeAccess system removes the need to restart the system on site. Commissioning is carried out conveniently from the control center – saving time and effort.



### **Parallel access – from a distance**

VeAccess uses modern web technology, enabling both insight and access to systems. Experts can process error messages across locations, reduce downtime and plan service calls efficiently.



# So fast, so efficient, so simple, so safe

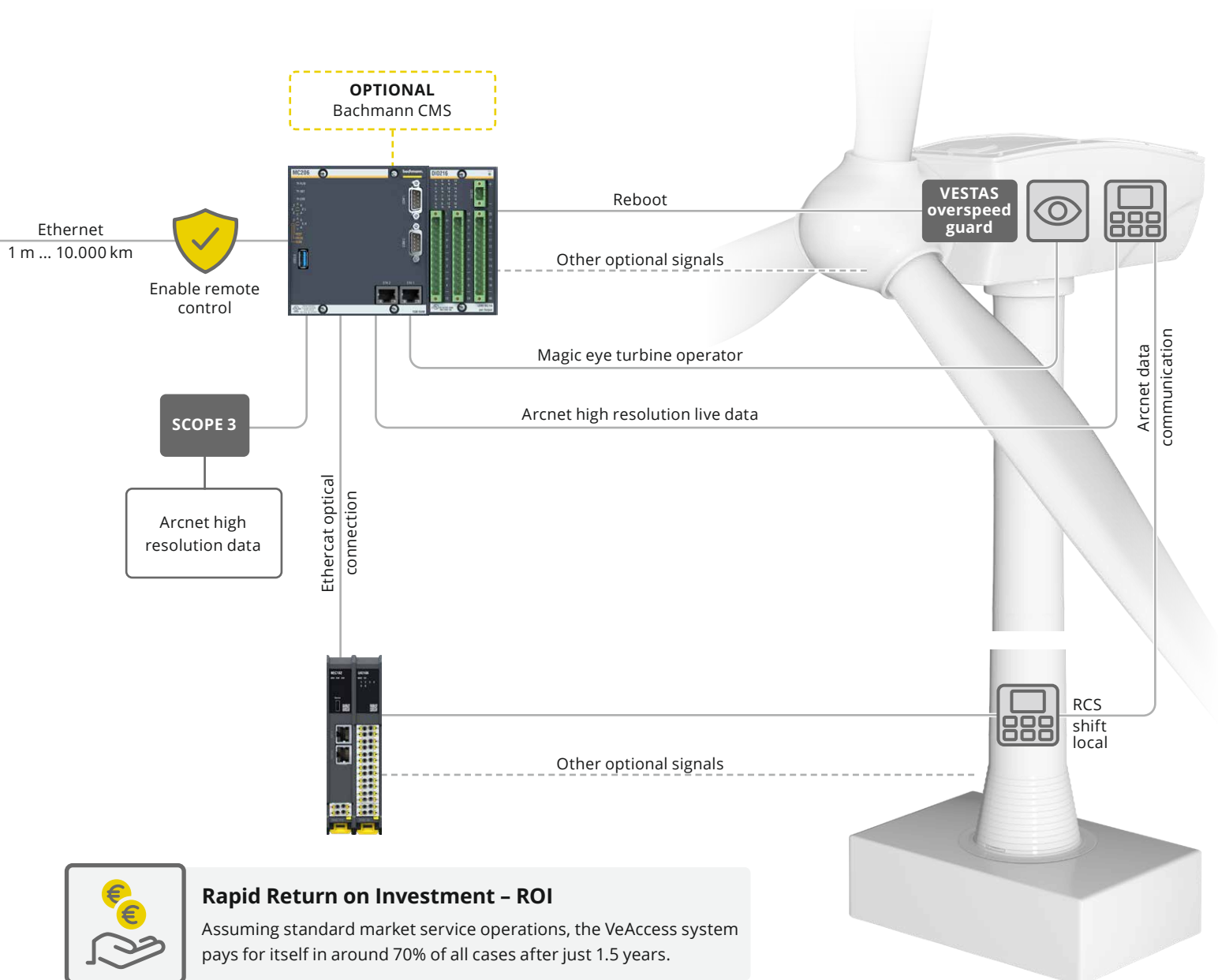
Simple topology = Innovative technology

## Sophisticated technology

The effective combination of proven technologies into one efficient unit: This is engineering at its highest level. Only Bachmann-certified individual components are used, enabling us to combine quality and functional reliability for a very long view.

## Maximum data availability

System and operating data is aggregated to the highest quality and, backed up in the system, is available at any time for dedicated fault analysis.



## Rapid Return on Investment - ROI

Assuming standard market service operations, the VeAccess system pays for itself in around 70% of all cases after just 1.5 years.

## Access security

Anyone who installs a door to the system has the convenience of access, but also the risk of unauthorized access. From functional security to active cyber protection, our solutions prevent unauthorized entry or exit – our systems are designed for this and are constantly updated.

## Quality for the future

- Quality and durability – this is what Bachmann stands for
- Distinctive quality of detail in parts and components
- Compliance with the highest environmental standards throughout the entire production process
- State-of-the-art manufacturing and testing processes
- 48-hour climate stress test for each hardware module
- ISO 14001 certified

## Product Overview

Available for Vestas V80/90 (other Vestas turbine types on request).

	VeAccess – Light	VeAccess – Standard	VeAccess – Advanced
<b>Product solutions</b>	The product solutions build on one another; each subsequent level includes all the software and hardware components of the previous solution.		
<b>Software functions</b>	<ul style="list-style-type: none"> <li>• Magic eye interface</li> <li>• WebMI for local and remote access</li> <li>• Remote access to keyswitch</li> <li>• WTT_ACC with userlevels etc.</li> </ul>	<ul style="list-style-type: none"> <li>• High resolution data (Arcnet)</li> <li>• Snapshot function (integrated in WebMI)</li> <li>• VOG Reset</li> <li>• Remote Access button in nacelle</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated CMSadvanced</li> </ul>
<b>Scope of hardware</b>	<ul style="list-style-type: none"> <li>• Downtower installation in Vestas cabinet including MagicEye connection</li> </ul>	<ul style="list-style-type: none"> <li>• Cabinet in nacelle</li> <li>• Arcnet Hub</li> <li>• Optional optical cable tower</li> <li>• Media Converter EtherCat&lt;&gt;FOC</li> </ul>	<ul style="list-style-type: none"> <li>• AIC214, cables &amp; sensors</li> </ul>

## What makes us special

Many skills are required from the first conversation to successful implementation. It is a sign of quality when customers always return because they appreciate the consistent focus on solutions as well as the respectful cooperation. Our employees' many years of experience create security and trust.



**YOU WILL FIND MORE INFORMATION ON**

**[bachmann.info](http://bachmann.info)**



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