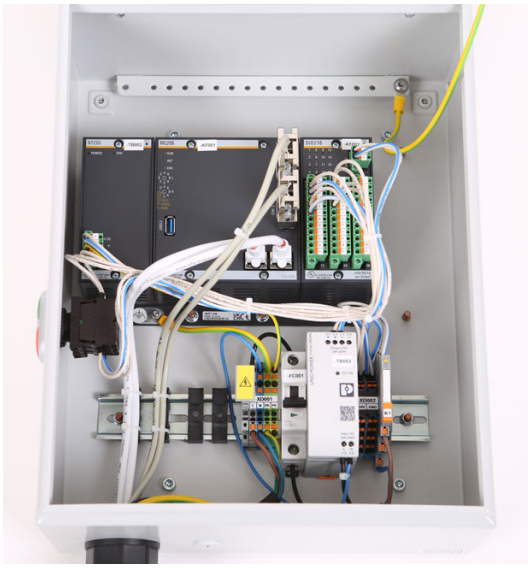
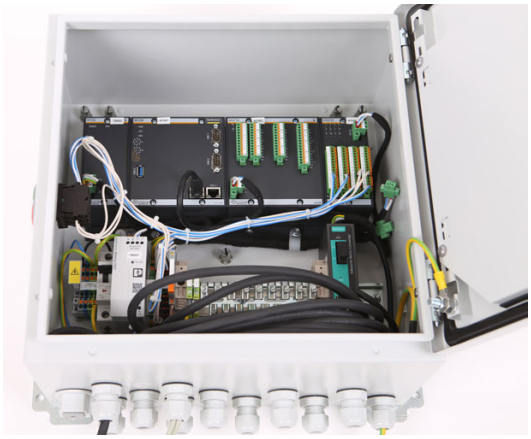


VeAccess Standard



VeAccess Advanced

VeAccess Light

Part type designation	Part number
VeAccess Standard	00045145-00
VeAccess Advanced	00045130-10
VeAccess Light	On request

VeAccess

Remote access system

VeAccess is a powerful remote access system for the location-independent monitoring, diagnostics, and control of Vestas wind turbines. It provides full access to all system functions via a web browser – similar to direct on-site access via the service interface.

The combination of tried and proven hardware and modern web technology provides a reliable platform for remote monitoring and remote service. Operators and service teams have access to up-to-date operational and system data at all times and can intervene in system operations as needed.

VeAccess is based on a modular, robust hardware architecture and uses certified components from Bachmann. The system can be easily integrated into existing system structures and forms the basis for connecting to SCADA systems (e.g., forsiteSCADA).

Communication takes place via industrial interfaces and supports long distances – from local area networks to globally distributed locations.

VeAccess assists operator and service organisations, in particularly with:

- **Remote fault analysis**
  Fast diagnostics without on-site deployment reduce downtime and increase system availability.
- **Remote service and expert support**
  The central platform ensures parallel support for multiple service teams and the efficient involvement of experts.
- **Remote control and recommissioning**
  Systems can be started and reset directly from the control center, resulting in significantly reduced response times.
- **Fleet monitoring**
  Integration into SCADA systems enables comprehensive monitoring.

Features

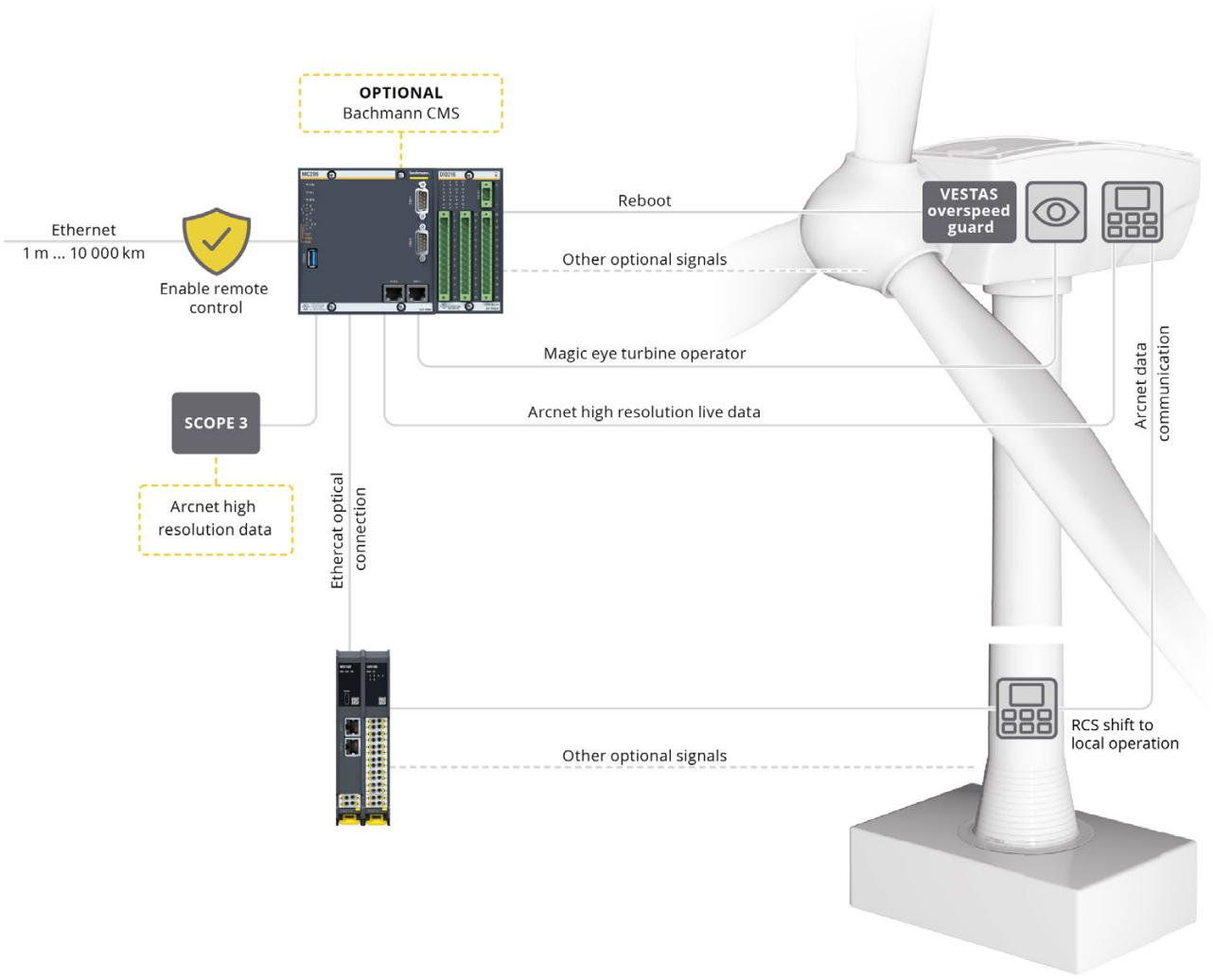
- Web-based remote access to systems (remote panel)
- Read and write access to operating data and parameters
- Remote start, stop, and reset of systems
- Manual operation of individual system components
- Multi-user parallel access
- SCADA systems integration (forsiteSCADA)
- High data transparency through live and historical data
- Secure communication and cyber protection

System variants

VeAccess Standard
- Standalone variant
- Compact nacelle cabinet with Arcnet and Magic Eye connectivity
- DIN rail module for installation in the VESTAS tower base cabinet

VeAccess Advanced
- Combination of VeAccess Standard and CMS222 nacelle cabinet
- VeAccess components with Arcnet and Magic Eye connectivity
- DIN rail module for installation in the VESTAS tower base cabinet

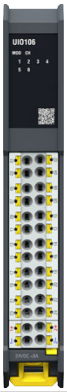
VeAccess Light
- Compact variant without Arcnet and without top box
- DIN rail module for installation in the VESTAS tower base cabinet
- Magic Eye interface is implemented in the Vestas tower base cabinet



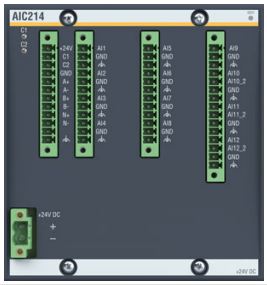
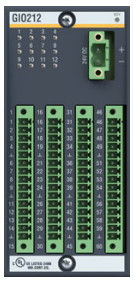
VeAccess Advanced – system architecture for control and data access

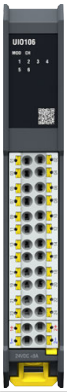
VeAccess Standard

M200 modules			Details
			VeAccess components • Moxa media converter • Serial interface for Arcnet hub • Magic Eye interface Application: Performance of remote diagnostics for the analysis and troubleshooting of wind turbines. Station: Nacelle station Backplane: BS204 00009752-00 Cable harness: EU version Memory: CFast 4 GB 00017355-00 License: CMSSTD AIC RT 00032043-99
Slot 1: NT255 00031426-00	Slot 2, 3: MC206-1GB/0MB CFA 0031730-00	Slot 4: DIO216 00010615-00	

M100 modules		Details
		Application: Performance of remote diagnostics for the analysis and troubleshooting of wind turbines. Station: Tower base station Backplane: BPR1nn / BPS1nn 00039235-nn / 00039237-nn Cable harness: EU version Memory: CFast 4 GB 00017355-00 License: CMSSTD GIO RT 00032042-99
Slot 1: NEC102 00041206-00	Slot 2: UIO106 00028977-00	

VeAccess Advanced

M200 modules				Details
				VeAccess components • Moxa media converter • Serial interface for Arcnet hub • Magic Eye interface Application: Full remote control and active operational management of wind turbines, including intervention in turbine functions. Station: Nacelle station Backplane: BS206E 00028685-00 Cable harness: EU version Memory: CFast 4 GB 00017355-00 License: CMSSTD AIC RT 00032043-99
Slot 1: NT255 00031426-00	Slot 2, 3: MC206-1GB/0MB CFA 0031730-00	Slot 4, 5: AIC214 00028808-00	Slot 6: GIO212 00020620-00	

M100 modules		Details
		Application: Full remote control and active operational management of wind turbines, including intervention in turbine functions. Station: Tower base station Backplane: BPR1nn / BPS1nn 00039235-nn / 00039237-nn Cable harness: EU version Memory: CFast 4 GB 00017355-00 License: CMSSTD GIO RT 00032042-99
Slot 1: NEC102 00041206-00	Slot 2: UIO106 00028977-00	

VeAccess Light

M200 modules			Details
			VeAccess components • Moxa media converter • Magic Eye interface Application: Monitoring of wind turbines with read-only access to operating and status data. Station: Tower base station Backplane: BS204 00009752-00 Cable harness: EU version Memory: CFast 4 GB 00017355-00 License: CMSSTD AIC RT 00032043-99
Slot 1: NT255 00031426-00	Slot 2, 3: MC206-1GB/0MB CFA 0031730-00	Slot 4: DIO216 00010615-00	

VeAccess Standard – technical data

DIO216	
Analog measurement channels	16 selectable (24 V / 1 A)
Sampling rate	Up to 400 Hz
Error detection	Cable break, interference pulse, phase error
CPU unit	
Interfaces	Ethernet, EtherCAT, FASTBUS, CAN, CANOPEN, OPC UA, PROFINET
Power supply	Multi-voltage power supply 100 V to 240 V / 50 Hz to 60 Hz / 50 W
External operating voltage	24 V / 5 V short-circuit-proof
Mechanical conditions and environmental conditions	
Mechanical class 3M4	EN 60721-3-3
Sinusoidal vibration	EN 60068-2-6 Test severity 2 Hz to 9 Hz ±3.5 mm, 9 Hz to 500 Hz ±10 m/s
Shock and continuous shock	EN 60068-2-27 Test severity 15 g over 11 ms, all axes
Air pressure range	EN 60068-2-13 Test severity: 106 kPa to 58 kPa (0 m to 4500 m)
Temperature range	-30 °C to +60 °C between 5 % and 95 % humidity (no condensation)
Insulation resistance	EN 61557-2
Immunity to interference	EN 61000-6-2
Galvanic isolation	AC voltage EN 60255-5 Test severity 500 V_{RMS}, 50 Hz, 1 min
Electrical tests	ESD EN 61000-4 -2, -3, -4, -5, -6, -8, -9 and -11
Switch cabinet	
Mounting type	Wall mounting, fixing feet mounting, mounting with magnets
Degree of protection	IP65
Size unpacked W × H × D	380 mm × 300 mm × 155 mm
Mass unpacked	10.5 kg (incl. pre-assembled cable harness)
External temperature range	-25 °C to +55 °C between 5 % and 95 % humidity (no condensation)

VeAccess Advanced – technical data

AIC214	
Analog measurement channels	12 IEPE enabled measurement channels (3 alternatively ±10 V) and 2 counters
Sampling rate	100 Hz to 51.2 kHz (synchronous)
Error detection	Cable break, interference pulse, phase error, bias voltage
GIO212	
Analog measurement channels	12 selectable (±10 V, 4 mA to 20 mA, counter)
Sampling rate	Up to 400 Hz
Error detection	Cable break, interference pulse, phase error
CPU unit	
Interfaces	Ethernet, EtherCAT, FASTBUS, CAN, CANOPEN, OPC UA, PROFINET
Power supply	Multi-voltage power supply 100 V to 240 V / 50 Hz to 60 Hz / 50 W
External operating voltage	24 V / 5 V short-circuit-proof
Mechanical conditions and environmental conditions	
Mechanical class 3M4	EN 60721-3-3
Sinusoidal vibration	EN 60068-2-6 Test severity 2 Hz to 9 Hz ±3.5 mm, 9 Hz to 500 Hz ±10 m/s
Shock and continuous shock	EN 60068-2-27 Test severity 15 g over 11 ms, all axes
Air pressure range	EN 60068-2-13 Test severity: 106 kPa to 58 kPa (0 m to 4500 m)
Temperature range	-30 °C to +60 °C between 5 % and 95 % humidity (no condensation)
Insulation resistance	EN 61557-2
Immunity to interference	EN 61000-6-2
Galvanic isolation	AC voltage EN 60255-5 Test severity 500 V_{RMS}, 50 Hz, 1 min
Electrical tests	ESD EN 61000-4 -2, -3, -4, -5, -6, -8, -9 and -11
Switch cabinet	
Mounting type	Wall mounting, fixing feet mounting, mounting with magnets
Degree of protection	IP65
Size unpacked W × H × D	380 mm × 380 mm × 210 mm
Mass unpacked	10.45 kg (including pre-assembled cable harness)
External temperature range	-25 °C to +55 °C between 5 % and 95 % humidity (no condensation)

VeAccess Light – technical data

DIO216	
Analog measurement channels	16 selectable (24 V / 1 A)
Sampling rate	Up to 400 Hz
Error detection	Cable break, interference pulse, phase error
CPU unit	
Interfaces	Ethernet, EtherCAT, FASTBUS, CAN, CANOPEN, OPC UA, PROFINET
Power supply	Multi-voltage power supply 100 V to 240 V / 50 Hz to 60 Hz / 50 W
External operating voltage	24 V / 5 V short-circuit-proof
Mechanical conditions and environmental conditions	
Mechanical class 3M4	EN 60721-3-3
Sinusoidal vibration	EN 60068-2-6 Test severity 2 Hz to 9 Hz ±3.5 mm, 9 Hz to 500 Hz ±10 m/s
Shock and continuous shock	EN 60068-2-27 Test severity 15 g over 11 ms, all axes
Air pressure range	EN 60068-2-13 Test severity: 106 kPa to 58 kPa (0 m to 4500 m)
Temperature range	-30 °C to +60 °C between 5 % and 95 % humidity (no condensation)
Insulation resistance	EN 61557-2
Immunity to interference	EN 61000-6-2
Galvanic isolation	AC voltage EN 60255-5 Test severity 500 V_{RMS}, 50 Hz, 1 min
Electrical tests	ESD EN 61000-4 -2, -3, -4, -5, -6, -8, -9 and -11
Switch cabinet	
Mounting type	Wall mounting, fixing feet mounting, mounting with magnets
Degree of protection	IP65
Size unpacked W × H × D	TBD
Mass unpacked	TBD
External temperature range	-25 °C to +55 °C between 5 % and 95 % humidity (no condensation)