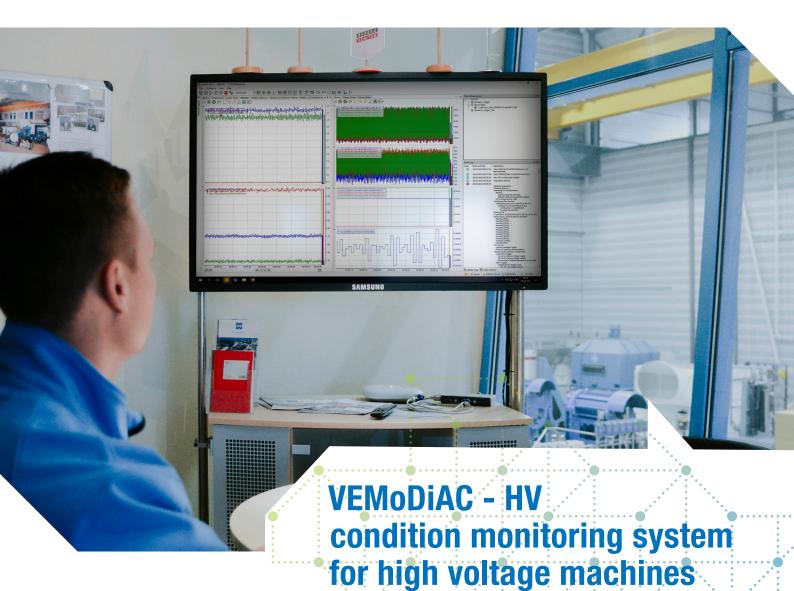


ELECTRIC DRIVES

FOR EVERY DEMAND



Improving your up-time

- Process data capturing
- Process optimization
- Reporting and analysis
 - Simplification and integration

VEMoDiAC-HV helps identify irregularities and process improvements

Process Data Acquisition

The Condition Monitoring System consolidates all sensors providing data for the machine's calculation model to ensure the collection of significant process data. The application of the iba-Platform makes it possible to achieve a high sampling rate which makes calculations, evaluations, and analyses possible in real time. Non-measured data can also be simulated by calculations, which provides a more in-depth insight into the machine and the drive train.

Process Optimization

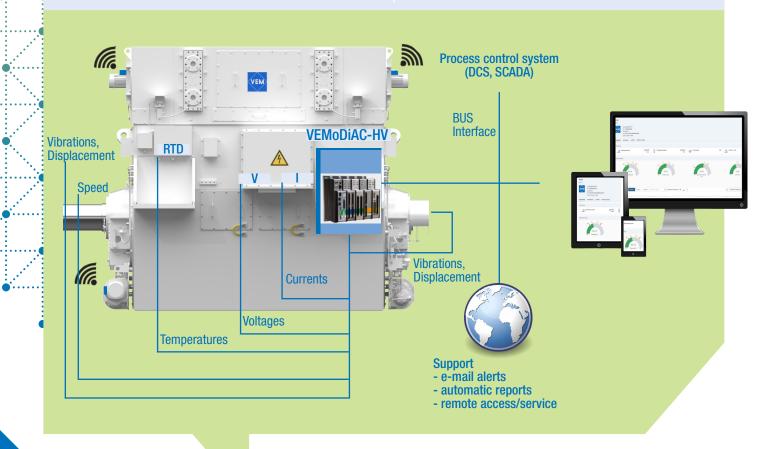
Independent of other drive components, VEMoDiAC-HV helps avoid machine down times as the monitoring system detects and reports any abnormalities. As well as avoiding unexpected down times, repairs can also be planned for during the process. All of this greatly benefits output and profitability.

Reporting and Analysis

Warnings and alarms can be created based on individual guidelines with the help of the monitoring system. These warnings will be sent via email from the system to designated recipients. Reports can also be automatically generated or trends identified, all of which can be managed independently or with the support of VEM experts.

Simplification and Integration

Because every common user interface is supported, VEMoDiAC-HV can be integrated into existing process control systems. The software also works as a standalone tool to map processes in the cloud and generate reports and analyses as a digital twin.



Components and features at a glance

Main components

- IPC and I/O system in separate auxiliary box mounted on machine
- software platform for evaluation and visualization
- integration of auxiliary drives via VEMoDiAC-Sens
- LTE router for remote connection

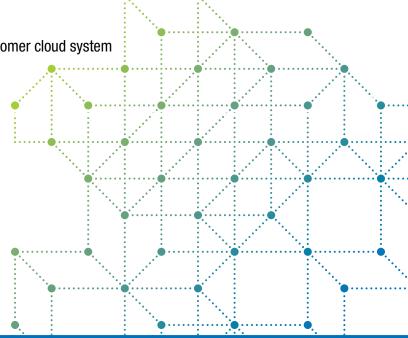
Main features

- central monitoring of all machine sensor data
- clear visualization of key operating figures
- event based storage of high sampling rate of sensor data
- machine specific and process related settings of warning and alarm values for initial detection of changes
- · automatic e-mail notification of warnings and alarms

- evaluation of electro-mechanical occurrences
- · energy metering
- periodic auto-generation of customized reports and trend analysis
- pre-evaluation and summary of sensor data and transfer to existing DCS/SCADA or protection system via all common BUS protocols

Options

- three-phase measurement of voltage and current for deep failure analysis
- detailed real-time vibration monitoring with waterfall diagrams and orbit analysis
- visualization in customized dashboard
- online remote assistance with VEM service/experts 24/7 on demand
- offline expert reports by VEM engineers
- connection with digital twin in VEM/SAP AIN or customer cloud system
- ex-protected housing for use in hazardous area
- online Partial Discharge measurement and analysis





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FOR EVERY DEMAND

VEM GmbH

Pirnaer Landstraße 176 01257 Dresden Germany

VEM Sales

 Low voltage department
 High voltage department
 Drive systems department

 Ph.
 +49 3943 68-0
 Ph.
 +49 351 208-0
 Ph.
 +49 351 208-1180

 Fax
 +49 3943 68-2120
 Fax
 +49 351 208-1028
 Fax
 +49 351 208-1185

Email: low-voltage@vem-group.com Email: high-voltage@vem-group.com Email: drive-systems@vem-group.com

VEM Service

Ph. +49 351 208-3237
Fax +49 351 208-1108
Email: service@vem-group.com

www.vem-group.com

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