

VIBcare REMOTE CONDITION MONITORING

Addin

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VIBcare

REMOTE CONDITION MONITORING - KNOWLEDGE & EXPERIENCE YOU CAN RELAY ON

SYSTEM DIAGRAM

fficiency in machinery | infrastructure maintenance is more and more manage a dependent on monitoring and EC Systems remote diagnostic technology. Implementing monitoring such systems allows to improve safety ensures, that customer's machines level, increase availability and reduce are supervised by experienced maintenance costs, however they also diagnosticians. The architecture of the require constant data collection and system allows to manage hundreds of analysis. This means additional costs of installations distributed on a large area, hiring and training qualified personnel, our specialists can remotely monitor as well as IT infrastructure expenses.

Remote condition monitoring service is a unique proposal allowing to is to early detect developing machine optimize machine operation without additional employment costs, proper personnel training and expenses on IT | lowered maintenance costs.

needed to diagnostic system. condition VIBcare system: machines located in any place in the world. The main purpose of the service failures, which means improvement of security level, increased availability and

VIBcare in a nutshell:

- Custom configuration of monitoring systems suiting your machinery
- Automatic alarm threshold setting
- Centralized data replication
- Continuous monitoring and analysis of all current data
- Periodic reporting on technical state of your machines

KEY BENEFITS OF THE VIBcare: $\mathbf{\lambda}$

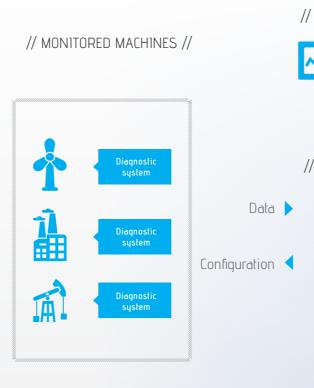
- → Lower personnel costs no need to hire specialists on-site
- → Lower IT costs no need to maintain a database for the monitoring data
- → Supervision over the machinery done by highest class specialists
- → Immediate reaction in case of an emergency

VIBex condition monitoring conditions. system for rotating machinery. When situation requires special The center collects data from attention, our specialists conduct individual VIBex systems installed at detailed analysis of the machine. If the customer's facilities, which done they detect any relevant signs of a through safe internet connection. The developing failure, the customer is data is analyzed by advanced diagnostic informed immediately. In addition to to avoid failures or other operational

[IBcare is an extension of our | or dangerous machine operational | each monitored machine which describe

modules, which detect non-standard that, we prepare periodic reports for problems.

its current condition. The reports also includeimportantsuggestionsregarding further operation of the machine and a list of machine's components which should be under special supervision in the forthcoming period. This helps











APPLICATION OF VIBcare IN INDUSTRY



VIBcare COMPLEMENTARY PACKAGES

SERVICE AVAILABILITY CONDITIONS

he VIBcare service, depending on customer needs, comprises of the following complementary packages:

ProActive Package

▲ VIBcare Proactive is a constant, remote supervision over operating machines, based on Vibex system implemented by EC Systems. In the scopeofthispackagetheengineering team of EC Systems takes over the responsibility for monitoring of the machines included in the service agreement. The configuration of the system is performed together with the client based on audit and analysis of machines' operation in the reference period. The settings of the monitoring, together with the warning and alarm thresholds are transferred to the customer. When a threshold is breached. EC Systems informs the customer about machine's condition. Based

on recommendation, the client decides about possible shut down, or scheduling maintenance stoppage. EC Systems additionally handles emergency notifications coming from the customer. The service does not have any hourly limit.

ReActive Package

Guaranteed availability of ECSystems engineering team supporting client's maintenance department. EC Systems experts carry current tasks according to customer's requests or according to appointed schedule. The work is performed remotely in cooperation with the customer.

OnDemand Package

Based on frame agreement the customer receives direct contact to the engineer on duty. There is no fixed monthly fee, however EC Systems does not guarantee team's availability. The fee is based directly on the amount of used engineering hours.

on recommendation, the client | For each of the packages there are the decides about possible shut down, or | following extending options available:

Easy Option

➤ Together with the VIBcare service EC Systems delivers and installs a complete monitoring system without the need to purchase it up front (does not apply to cabling and sensors). The ownership of the system is transferred to the customer after 5 years of continuous delivery of the VIBcare service. The option is available only with the ProActive Package.

24/7 Option

Increased availability to handle emergency notifications and responsibility for machines monitoring up to 24 hours a day, 7 days a week.

4h Option

 Guaranteed reaction time reduced to 4 hours.

	VIBcare ReActive	VIBcare ProActive	VIBcare OnDemand
Work model	Continuous according to scope & schedule	Work on demand	Work on demand
Engineering hours limit included in the monthly fee	No limit	As per agreement	-
Emergency reaction time	Immediate, if possible Guaranteed reaction time of 8 hours* from submission *4 hours with 4h Option		No guaranteed reaction time
Machine monitoring	Continuous	-	-
Handling standard notifications	9:00 – 17:00 CET, working days		Non stop
Handling emergency notifications	9:00 – 17:00 CET, working days Nonstop with 24/7 Option		-
Other requests	Requests outside of the package scope are charged per used engineering hour		





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