



Machine Condition Monitoring Software

The SmartDiagnostics® Machine Condition Monitoring (MCM) Software provides near-continuous monitoring of the health of critical equipment by tracking over time the patterns of machine operating characteristics, especially broad frequency vibration. Utilization of MCM Software is the key to implementing a quality predictive maintenance process.

MCM Software is both powerful and simple to use, with a drag & drop interface that allows easy configuration of alarms that could indicate impending failure. The system monitors many characteristics, but vibration is unique in that it can not only tell you if there is a problem, but indicates what the specific problem will be. You can focus in on frequency trends in order to isolate problems and minimize downtime.



Give Your Machines **a Voice™**

MINIMIZE DOWNTIME

Simply put, an unmonitored machine is more likely to break down. When machines break down, not only do they cost money to fix, they extend losses into the future. Predictively monitoring your equipment helps minimize scheduled maintenance time and prevent major failures. SmartDiagnostics® alerts you to issues so fixes can occur before crises do.

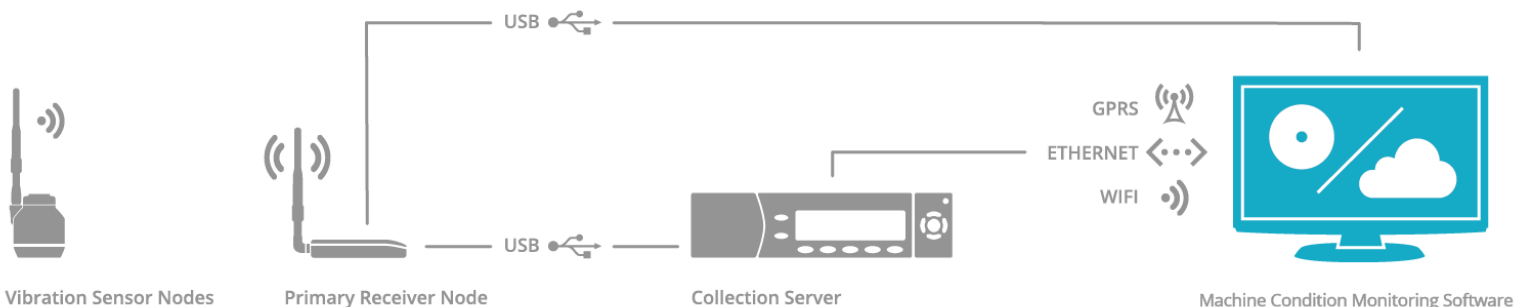
MAXIMIZE PERFORMANCE

Machines can appear to be functioning normally even when internal problems exist. If not caught early, this often leads to poor quality products, large material losses, rework costs, and warranty returns by unsatisfied customers. SmartDiagnostics® is highly sensitive, capable of monitoring multiple characteristics and noticing even the slightest deviations in machinery health.

REDUCE COSTS

Many companies ensure proper machine conditions by evaluating them according to predetermined schedules. As a result, machines are often stopped unnecessarily to replace parts that have significant remaining operational life. SmartDiagnostics® software allows you to predict just when a machine is in danger of failure to help ensure that machines are replaced or repaired only when necessary.

The SmartDiagnostics® System





Give Your Machines a Voice™

Machine Condition Monitoring Software Specifications

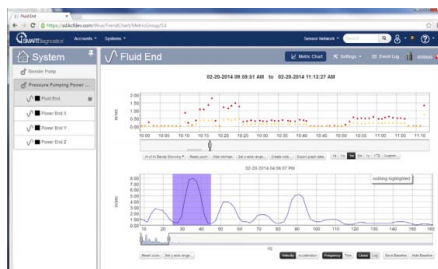
Software modules	<ul style="list-style-type: none"> • Runs on application server or Collection Server that has connected SmartDiagnostics Receivers • Portal accessible via browser
Minimum Server Computer Requirements (Local Installations Only)	<ul style="list-style-type: none"> • PC with a 1.6GHz or faster processor • 1GB (32 Bit) or 2GB (64 Bit) RAM (Add 512 MB if running a virtual machine) • 3GB of available hard-disk space
Operating System Requirements	<ul style="list-style-type: none"> • Windows Vista (both 32-bit and 64-bit versions) • Windows 7 (both 32-bit and 64-bit versions)
Browser Requirements	<ul style="list-style-type: none"> • Internet Explore 9.0 or above • Google Chrome • Firefox • Opera 11.0 and above • Safari

Industry Applications

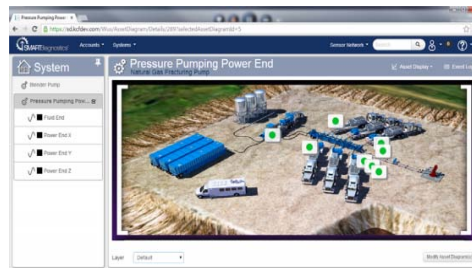
- Industrial HVAC/R
- Oil & Gas
- Power Generation
- Pulp & Paper
- Food & Beverage

Features & Benefits

- Ability to view and trend multiple types of sensor data simultaneously, including the vibration and temperature.
- Choose between multiple views including, charts, a map or the dashboard.
- Configuration of multiple frequency monitoring bands to track vibration trends that are indicative of different types of machine wear or failure.
- Specify proactive alarm levels on all the monitoring bands to be instantly alerted of potential problems.
- Gives a better understanding of the wear and failure conditions by inspecting the detailed vibration spectrum for any sensor reading through either the frequency spectrum or time signature.
- Customizable collection frequency ranging from once every few seconds to once per day to match machine requirements.
- Consolidates sensor information into a single database enabling easy organization of equipment health data by plant and machine.
- Centralized configuration and management of Receivers and Vibration Sensors.



Machine Condition Monitoring Software Vibration Metric Chart



Machine Condition Monitoring Software System Map

The SmartDiagnostics® suite of products features an interactive, browser-based software that provides simple setup and an easy-to-use interface. The multi-user site features a role-based architecture in which selective permissions can be given for each profile, meaning that employees only see the information important to them. The highly responsive and secure software uses dynamic charting optimized for industrial sensor information and diagnostics. The software has the capability to support many kinds of sensors, and allows you to set alarms when machines are in danger of failing. In many industrial applications, preventing a single failure through proactive problem detection can justify the cost of an entire wireless system.



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