

# Online Machinery Health™ Management



## PREDICTIVE DIAGNOSTICS FROM ROTATING EQUIPMENT PREVENT UNSCHEDULED DOWNTIME

### ROTATING EQUIPMENT A KEY COMPONENT OF PLANTWEB® ARCHITECTURE

Unexpected machinery downtime can account for as much as 40% of lost capacity and can consume up to 30% of a plant's maintenance budget. Emerson's online machinery technologies and services help prevent unexpected downtime while reducing the overall cost of maintenance and increase performance.

Online Machinery Monitoring includes machinery protection, predictive diagnostics, performance monitoring, and integration with process control.

Online Machinery Monitoring also integrates critical and essential machinery into the proven PlantWeb digital plant architecture. These predictive online technologies measure and track faults, analyze data, and deliver information to operators and maintenance personnel so you know about problems in advance – long before they cause production interruptions.

### AMS SUITE DELIVERS INFORMATION FOR FAST ACTION

AMS Suite predictive maintenance applications, vital to Online Machinery Monitoring, deliver meaningful information to maintenance and reliability personnel and control room operators for faster action. Access to powerful predictive diagnostics allows your team to focus resources on problem assets and empowers them to act quickly. Decisions are based on accurate information.

### IMPROVE PRODUCTIVITY

- Reduce time and effort spent manually collecting asset data.
- Troubleshoot potential problems right from operations and maintenance PCs.
- Build teamwork as both operations and maintenance receive appropriate PlantWeb Alerts with recommended correction actions.
- Improve productivity by prioritizing work for your most critical assets.

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## MACHINERY HEALTH MANAGEMENT DRIVES IMPROVED BUSINESS RESULTS

### HIGHLIGHTS OF ONLINE MACHINERY HEALTH MANAGEMENT INCLUDE:

#### CSI 6500 Machinery Health Monitor

- Provides API 670 critical machinery protection and prediction
- Easily integrated with a DeltaV™ or Ovation® digital control systems
- Perfect for obsolete protection system retrofit application
- Identifies issues with critical equipment before problems trip the protection system.
- Delivers real-time machinery health information to operators and maintenance personnel.
- Provides industry-leading PeakVue® technology to differentiate early bearing faults from machine noise.

#### AMS Suite predictive maintenance software

- Gives a single, unified view of plant asset information
- Powerful dashboards and reports show information such as key performance indicators, prioritized lists of active alerts, and health ratings for each asset
- Collects detailed asset data for management, analysis, predictive maintenance, and performance monitoring

### OUR CUSTOMERS SAY IT BEST

- 44 hours downtime avoided in first 6 months.
- 50% increase in machinery meant time between failures.
- 43% reduction in mechanical emergency maintenance.
- 260 % program ROI in first 6 months.

– **Johns Manville, Etowah Tennessee**

### PROTECT YOUR EQUIPMENT INVESTMENT

Online Machinery Monitoring for your plant's most critical asset is an important element of a comprehensive asset management plan. Powerful diagnostics and precise alerts from critical rotating machinery are cornerstones to building your predictive maintenance environment. By combining protection, prediction, performance monitoring, and your process control system, you are actively ensuring the health and prolonging the life cycle of your critical machinery.

PlantWeb Services ensure successful implementation of the PlantWeb technologies to deliver maximum benefits from your technology investment.

Contact your Emerson sales representative to learn how you can improve availability and performance through better optimization of critical assets.

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