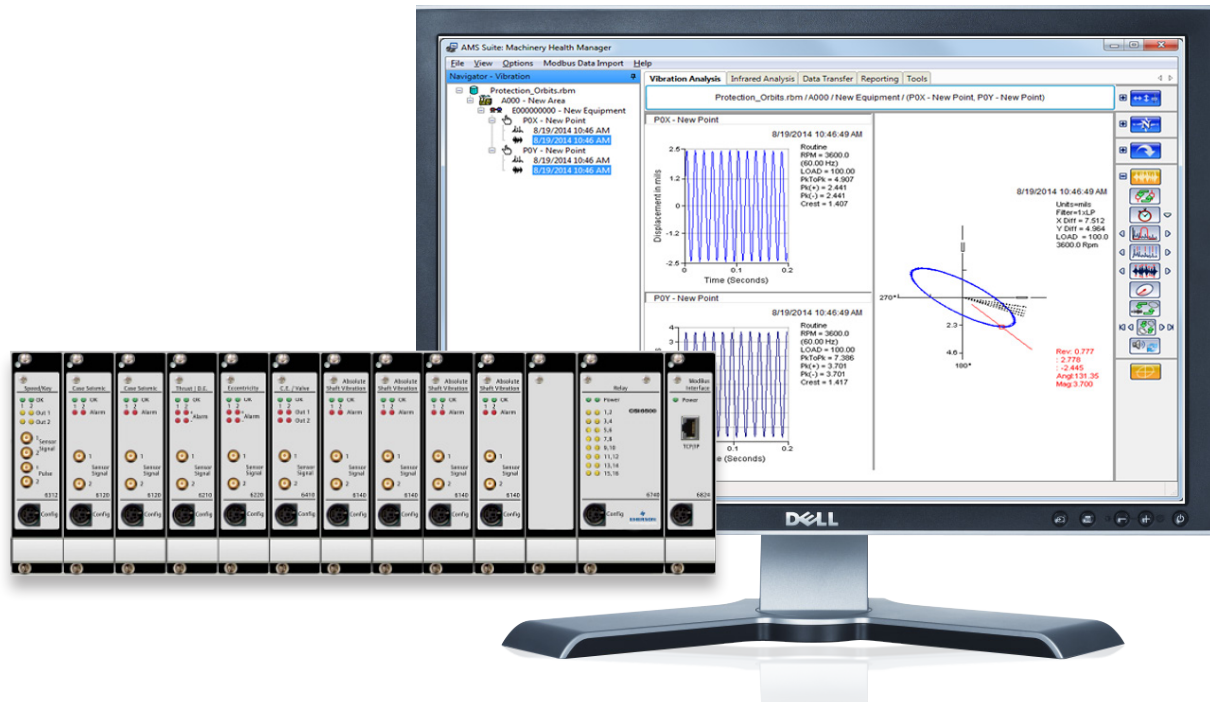# CSI 6500 and Machinery Health Manager

Add Basic Prediction to Protection for Rotating Machinery

Predict asset problems and make informed decisions in real time.

Gain insights into your machinery and predict — rather than react to — machinery issues. Avoid failures, diagnose shutdowns, and perform root-cause analysis using trends and detailed historical data.

AMS Machinery Manager integrates data from route-based prediction, online prediction, and wireless prediction solutions as well as third-party oil and infrared analysis data to provide a complete picture of machinery health. With version 5.61 it is now possible to directly access the CSI 6500 protection system and use basic prediction analysis tools.

EMERSON

Process Management

Create a Simple Connection for Long-range Results

A simple Ethernet connection from the CSI 6500 protection system to the AMS Machinery Health server brings users data including:

- Parameter trends
- Spectrums
- Waveforms
- Orbits (requires tachometer)

Delivered at specified intervals, this data is particularly useful for determining the health of sleeve bearings on turbo machinery. In addition, combining the waveform data from the CSI 6500 protection system with the circular polar or orbit plots available in AMS Machinery Manager allows diagnosis of such things as developing valve faults in reciprocating compressors.

The work is easily and quickly accomplished using AMS Machinery Manager:

- Parameter data for trends are collected once per second.
- Waveforms, orbits, and spectrums can be collected once per minute.

Safely Collect Data

The automated process for acquiring prediction data eliminates the need to connect to buffered outputs on the protection system and reduces the risk of inadvertently causing a machine trip.

Acquire Detailed History for Analysis

Parameter trends and detailed data (spectrum, waveform, and orbit) are stored in a standard AMS Machinery Manager database with enough historical depth to allow insight into protection shutdowns and provides essential data for root cause analysis. Unlike competitive products, Emerson's solution does not have a limit on the number of days in the history.

Operate Efficiently and Predictably

This solution captures the current and historical data needed to enable real-time, quality decisions to operate your assets more effectively.

Please refer to the AMS Suite: Machinery Health Manager overview data sheet for detailed information about the variety of modules and packages available for vibration analysis.

Contact your Emerson sales representative for more details.