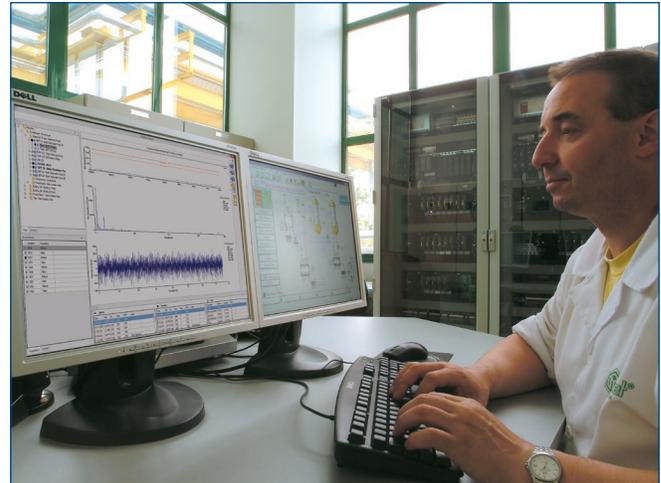


AMS Machine Works

- Vibration analysis tools for diagnosis of machinery health
- Familiar tools in a more intuitive interface for faster implementation
- Provides analytics for data acquired through the Emerson Smart Wireless Gateway with the CSI 9420 Wireless Vibration Transmitter
- Software module for the new ARES™ Asset Management Platform to maximize asset performance and reliability



Part of the new ARES Platform, AMS Machine Works is providing familiar tools for a shorter implementation and learning curve.

Overview

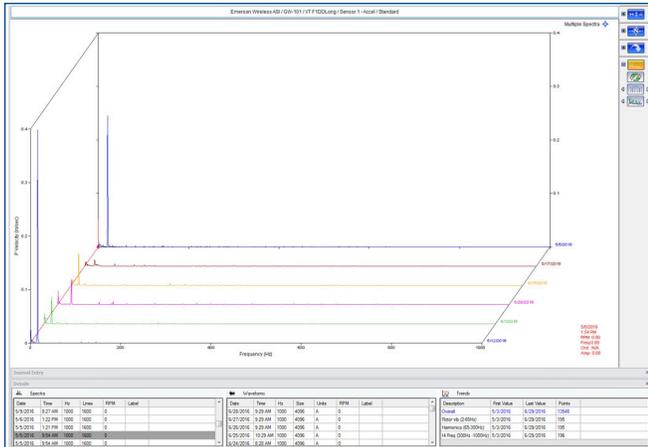
You have thousands of machines, any one of which could be developing a critical problem. You collected data from these machines, but having a single location where the data comes together and you can identify your troublemakers quickly would be more efficient.

The process is greatly simplified in AMS Machine Works because creating a database and configuring devices, allow the user to get started quickly and start identifying problems. AMS Machine Works combines predictive maintenance techniques with comprehensive analysis tools to provide easy and accurate assessment of the machinery health in your facility.

Powerful Tools in an Intuitive Interface

The AMS Machine Works includes a vibration analysis module with familiar, easy to use analytical tools such as

- Scalar value trending
- Bias, gap voltage trending
- 1x, 2x, Nx, peak/phase trending
- Trend Historian
- Waveform (points/ Live or P)
- Spectrum
- PeakVue™ overall, waveform, spectrum
- Fault frequencies
- Speed set options
- Standard, harmonic, and sideband cursor
- Circular plot



Intuitive tools and plots make identifying faults easy.

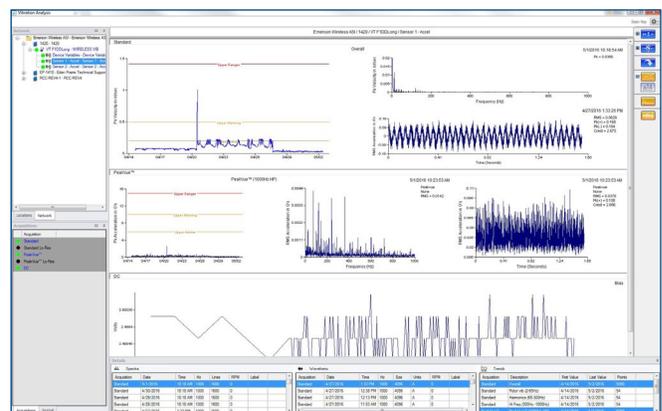
- Waterfall (Cascade)
- Run-out subtraction (waveform/vector plots)
- Harmonic family detection
- Sideband frequency detection
- Spectral peak value list
- Play audio of waveform
- Trend alarming
- Autocorrelation
- Data filtering (1x, 2x, 3X, Nx RPM)
- View data at the logical machine, or directly from the CSI 9420
- Look at the X, Y, and Z plot in a single screen
- View the complete machine component: all measurement points of an entire machine or machine train in a single screen
- View similar machines from more than one database
- Select how many and what types of plots will appear in your view
- Identify changes in data from month to month

With Machine Configurator you select what type of machine you want to set up and the point list is created.

Faster Database Creation with Machine Configurator

With the Machine Configurator module, you are no longer required to create and name each point on your machines individually.

Simply select what type of machine you would like to set up, and the list of points are automatically created along with typical machine parameters including speed and bearing types.



Familiar, easy to use analytical tools make AMS Machine Works more intuitive.

Integrate Data from the Wireless Vibration Transmitter

Emerson’s CSI 9420 Wireless Vibration Transmitter is integrated into the ARES Platform through the Emerson Smart Wireless Gateway (1410 and 1420 models). AMS Machine Works then utilizes that data to perform in-depth vibration analysis of the monitored rotating assets.

AMS Machine Works provides a CSI 9420 user with all of the necessary tools and functionality needed to utilize his wireless vibration transmitters to their full potential. This includes complete vibration data including overall levels, energy bands, high resolution spectra, and waveforms.

Also included is Emerson’s unique PeakVue technology that filters out traditional vibration signals to focus exclusively on impacting, a more reliable indication of asset health in specific types of equipment. PeakVue can visualize distress signals on a machine that are simply not visible with other vibration measurements.



Emerson’s CSI 9420 Wireless Vibration Transmitter is integrated into the ARES Platform through an Emerson Smart Wireless Gateway.

Minimum Requirements: Server with AMS Machine Works

ARES Version	1.3
Operating System	Windows Server 2012 R2
Architecture	x64
Processor	2.4GHz quad processor or faster
RAM	8.0GB
Disk Space	100GB
SQL	Microsoft SQL Server 2014 Express and above
.NET	Microsoft.NET 4.5
Browsers	IE 11, Chrome v45
Virtualization	VmWare 5.5 Hyper-V 2012
Min. Resolution	1366x768

Minimum Requirements: Client with AMS Machine Works

ARES Version	1.3
Operating System	Windows 7 Pro
Architecture	X86 or x64
Processor	Dual processor, 2.2GHz or faster
RAM	4.0GB
Browser	Chrome v35, IE 11
Min. Resolution	1366x768

Minimum Requirements: Standalone

The standalone system includes the server and client on the same computer.

ARES Version	1.3
Operating System	Windows 7 Pro, Server 2012 R2
Architecture	x64
Processor	2.4GHz dual processor or faster
RAM	8.0GB
SQL	Microsoft SQL Server 2014 Express and above
IIS	IIS 8.5
.NET	Microsoft.NET 4.5
Browsers	IE 11, Chrome v45

Ordering Information

Part Number	Description
A489420	The ARES Emerson Wireless Vibration Pack includes everything needed for a single user to get started using ARES Platform with their 1410, or 1420 Smart Wireless Gateways, and the CSI 9420 Wireless Vibration Transmitters. Included in this package is AMS Machine Works, which will enable the user to analyze and trend data from their CSI 9420s. This package includes licenses for one user for the ARES Platform, one Emerson Wireless Gateway Asset Source Interface (connects your gateway to ARES Platform), and 100 Online Machine Tags.
A480100	Additional ARES Platform Online Tags
A480001	Additional ARES Platform User

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