AMS Asset Monitor
Low-Speed Rotating Asset Health

CONNECT WITH AN EXPERT

Identify issues common to low-speed rotating assets

Low-speed rotating equipment can be found in many different industrial applications, from food and beverage, pharmaceutical, mining, metals, and quarrying, power generation, chemical, and more. Heavily loaded machines will typically be equipped with antifriction bearings. The usual vibration analysis provides very rare opportunities to detect the symptoms of bearing degradation before failing unexpectedly. An unexpected failure can, at best be inconvenient, and at worst result in considerable loss of production and unplanned costs, often totaling many thousands of dollars.

Emerson's PeakVue monitoring and PeakVue Plus analytics are the proven and very powerful tools in the condition monitoring of the low-speed assets!

The AMS Asset Monitor is an edge analytics device that delivers the benefits of continuous monitoring to more plant assets and far less installation expense.

Quick, Easy Deployment and Use

- Small footprint size that is easy to mount.
- Field-located close to the asset for easy and lower-cost wiring.
- Predefined asset templates eliminate costly engineering.
- Easy DIY configuration.
- Built-in web service software interface replaces software, server, and licensing.
- Access asset health with any browser-enabled device from anywhere.

Automated Collection and Built-in Edge Analytics

- Continuous data collection eliminates data gaps typical in manual analysis.
- Automated analysis including PeakVue Plus provides current asset health 24/7.
- Vibration training and experience not required for diagnosis.

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1 & 2 Neal Analytics 2018, Industrial Pump Failures

Interface Data to Other Systems and Analytics

- Acts as Modbus TCP/IP Slave and OPC UA Server.
- Connects to AMS Optics Platform, Historians, PLC, DCS, and Data Lakes.

Integration with Emerson's DeltaV™ DCS

- Uses the same **Char**acterization **M**odules (CHARMs) as DeltaV Remote for click-in-place technology.
- Similar housing to the DeltaV junction box for ruggedness and familiar installation.

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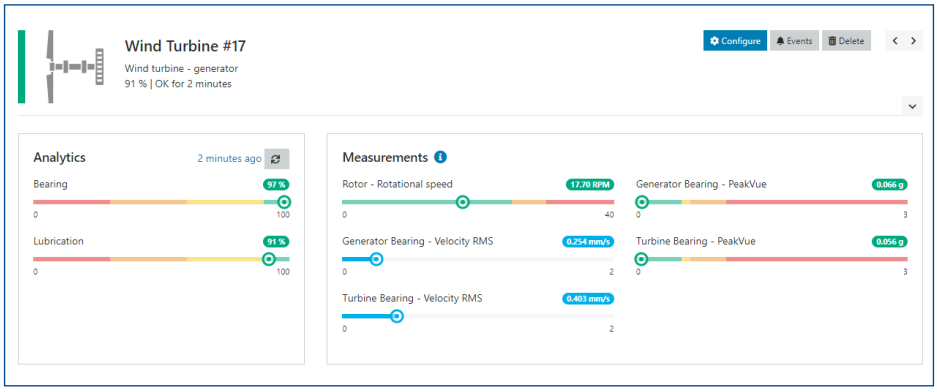
Intuitive Dashboard for Common Issues



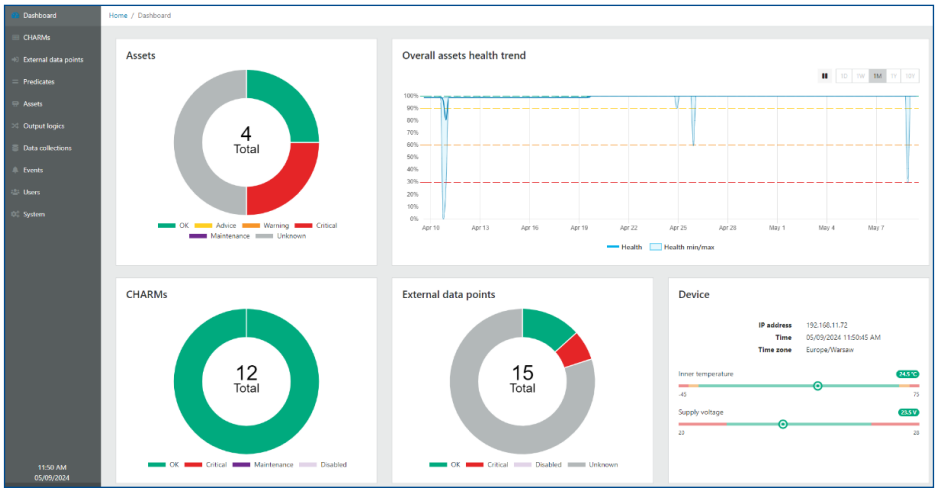
Typical issues include:

- Antifriction bearing mechanical damage
- Bearing improper lubrication
- Cracked/broken tooth in the gear
- Gear improper lubrication

Intuitive configuration in 8 easy steps:

1. Select and configure CHARMS.
2. Configure external data points for process parameters such as flow rates and temperature.
3. Choose asset type (pump, motor, gearbox, etc.).
4. Enter general information about the asset.
5. Enter bearing details, or select from the bearing library provided.
6. Map available sources to measurement locations.
7. Configure alert limits.
8. Select machine size... and you are done!

AMS Asset Monitor Dashboard



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