AMS ASSET MONITOR – FAN/BLOWER ASSET HEALTH

Identify issues common to motor-driven centrifugal fans and blowers

A wide range of applications benefit from the use of centrifugal fans and blowers, including gas handling, chemical processing, dusting collection, drying, fume control, and process heating/cooling. Their size (2 KW to 15,000 KW) and blade configuration (radial, forward curved, backward curved, airfoil, etc.) are specific to the application and industry, but they all have one thing in common: normal wear-and-tear on components such as bearings, rotors, blades, and the like can lead to unexpected shutdown of the production process.

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 fan 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 between collections.
- Automated analysis provides current asset health 24/7.
- Vibration training and experience not required for diagnosis.

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.

1 & 2 Neal Analytics 2018, Industrial Pump Failures





INTEGRATION WITH EMERSON'S DELTAV[™] DCS

- Supports the new Module Type Packages (MTP) for DeltaV[™], facilitating integration and communication between operations and field assets.
- Uses the same Characterization Modules (CHARMs) as DeltaV Remote for click-in-place technology.
- Similar housing to the DeltaV junction box for ruggedness and familiar installation.

Intuitive Dashboard for Common Issues

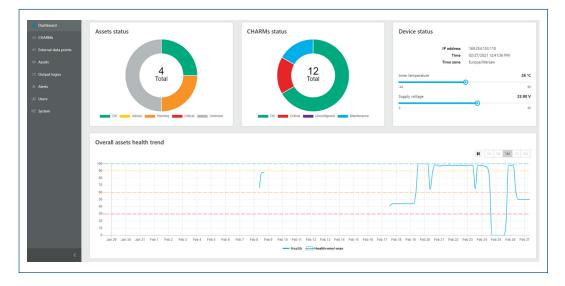
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Typical issues include:

- Antifriction bearing mechanical damage or improper lubrication
- Sleeve bearing Oil Whirl
- Rotor imbalance or misalignment
- Looseness in the support
- Uneven air gap of the motor
- Elevated blade pass amplitude
- Flow turbulence

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

