PREDICTIVE ANALYTICS

Detect, diagnose and predict equipment performance so you can take quick action to minimize disruptions

With our Predictive Analytics program, you'll have a clear understanding of your equipment's most likely failure modes and recommended actions, giving you vital information to take preventive action and respond to adverse equipment conditions quickly to keep them online.

Our Predictive Analytics solutions combine three essential components for successful, advanced monitoring of critical equipment: innovative edge devices, engineered predictive algorithms and a team of specialists at your side. As a result, you will know how your equipment is performing and what you can do to optimize efficiency and production.

FLOWSERVE

REDRAVEN™

Predictive Analytics

Predictive Analytics benefits

Minimize downtime and improve performance
Minimize disruptions and downtime and improve reliability and availability by diagnosing more than 15 major equipment failure modes and anomalies. With this ability, you can respond to equipment performance issues quickly and keep production moving. You can also provide operators with actionable recommendations to optimize pump performance.

Gain insights and guidance
The knowledgeable team at the Flowserve Monitoring Center can serve as “another set of eyes” to monitor and analyze your equipment more closely.

Improve productivity
With near real-time monitoring, analytics, diagnostics and trend reports, you can improve plant productivity with rapid insights into your equipment’s health and operating conditions.

Boost equipment performance
Increase energy efficiency and asset life by ensuring equipment is operating at its best efficiency point.

Reduce costs
Reduce inventory of spare parts and costs by ordering them only when needed. You can also reduce maintenance costs by quickly zeroing in on the root causes of equipment problems and optimizing maintenance efforts so you spend less time evaluating healthy equipment.

How it works

Sensors collect data
Flowserve’s sensors collect spectrum vibration and temperature data from rotating equipment’s bearing housings. Optional suction/discharge pressure sensors, flow meters and fluid temperature sensors can be installed to collect additional performance information.

Algorithms detect performance issues
Sensors securely transmit equipment performance data to the cloud-based Insight Portal, where software analyzes it using engineered algorithms based on Flowserve proprietary models, methodologies and industry standards. The algorithms look for specific performance indicators to predict future equipment performance.

Intuitive dashboard displays insights
Review equipment performance data in an easy-to-interpret dashboard that provides you with actionable insights. With these clear visuals, you can promptly identify which assets are not performing as expected and act quickly to minimize problems and disruptions. The Flowserve Monitoring Center’s team of specialists can help you to interpret the data and implement best practices for problem resolution.

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