

Identifying assets for immediate attention reduces annual maintenance costs.

93.2%

92.4%

10

91.9%

703

97.6%

SER

96.2%

Rotork is a market-leading global provider of mission-critical flow control and instrumentation solutions for the industrial actuation and flow control markets. These include oil and gas, water and wastewater, power, chemical process and industrial applications.

Customers rely on us for innovative, high quality and dependable solutions for managing the flow of liquids, gases and powders. We help customers around the world to improve efficiency, reduce emissions, minimise their environmental impact and assure safety.

Our reliability record is second to none. Our products are designed with safety and performance at their core and are put through vigorous testing and certified to international standards. Our products are certified for use in the world's most dangerous, and hazardous areas.

## Partnering with us provides the following:

- Assured safety and reliability
- Industry leading accuracy and efficiency
- Proven technology that works with all network control systems
- Product range with solutions to suit every application
- Assistance with plant planning, development and maintenance through our local support services
- We have innovative research and development centers throughout the world

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**Detailed Printed Reports** 

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Intelligent Asset Management (iAM) is a cloudbased asset management system for intelligent actuators and the flow control equipment they operate. Failure of key equipment can result in poor performance, poor quality, reduced output yields and reputational damage. The solution is a planned maintenance strategy with advanced analytics, condition monitoring and anomaly detection.

We know that downtime is costly for our customers. Supporting the continuous and reliable operation of a plant, by proactively managing and fixing key assets before they become problematic, allows for improved performance and increases in valuable uptime.

Through the collection of data and Rotork analytics, our innovative maintenance system improves long-term operational stability of all assets. Available both as a standalone offering and as part of a combined solution to meet individual needs. Performance, process criticality, product and operational data are combined to assess asset condition and determine if intervention is required to prevent performance degradation or failure. Smart maintenance powered by iAM is based on data from the field, rather than periodic or limited maintenance based on guesswork – or no maintenance at all. Early detection of anomalies can save costly repairs and gain a holistic understanding of an entire site. iAM removes the need to manually review data, saving time and reducing the likelihood of missing any problems.

There are flexible options for managing your flow control assets with iAM:

- Different levels are available for a customised experience
- The data can either be reported to, controlled by and acted on by Rotork, or can be managed by the customer to make their own informed decisions
- iAM is scalable, depending on customer requirement and budget



As part of the Industrial Internet of Things (IIoT), Intelligent Asset Management (iAM) is web based and easy to access. It provides easy and accurate reporting/monitoring of the condition of valves/flow control assets and anomaly detection, enabling proactive maintenance. iAM can be accessed from any browser on any device, using any operating system.

The platform allows customers to see the health status of their valves and associated flow control equipment through the information gathered by the actuators' data loggers. A simple and intuitive user interface provides straightforward and easy to understand information. Live diagnostic actuator data is available for sites that use a Rotork *Master Station* (via our Gateway computer), such as alerts and actuator status.

## iAM platform

- Simple to use interface
- Clear indication of which assets are not performing optimally
- 'Summary' views simplify complex analytics into easy to interpret visuals
- Search for individual actuators in multiple ways e.g. by using serial number, tag or description
- Can be used even if third party software installation is prohibited
- Can be used on mobile devices, increasing user flexibility
- Web based and will work across multiple operating systems
- No updates or changes to operating system to interrupt your advanced analytics
- Colour coded statuses on map saves time in identifying problem assets

# What does "good" look like for you?

We work with each customer to understand what a healthy set of assets look like for an individual application.

## **iAM** benefits

- Central platform to see the health of all assets on site
- Advanced analytics
- Clear view of individual asset condition, age and life cycle status
- Early detection of issues allows resolution before costly failure/repairs
- Reduced downtime via increased availability, reliability and operational stability
- Efficient targeted maintenance
- Removes need to manually review data, saving time
- Reveals trends over time
- Leads to operational stability
- Life cycle management, decision justification and traceability
- Robust, safe and secure online platform



iAM provides summary views that simplify complex analytics of the health of assets into easy to interpret visuals

Through Intelligent Asset Management (iAM), Rotork makes it easier to get data out of actuators – and act on it to improve performance. Multiple data points from intelligent actuators are used to capture a complete picture of how the assets on a site are performing.

The key areas of information that are taken from data loggers and uploaded to iAM are torque, temperature, vibration and event log information, (such as open and close starts log, movement log and alarm log) as well other secondary metrics such as partial stroke profile, maximum starts per hour and motor run time. This wide-ranging view of multiple data sets allows for a holistic understanding of exactly what is occurring on site. "Acceptable" levels are automated and clearly indicated, enabling remedial action before failure.

#### Torque

- Critical torque level
- Opening/closing torque
- Average torque
- Torque deviation
- Open and close torque at full and partial stroke

#### Temperature

- Temperature is used as a factor when assessing overall condition
- Maximum level and good/warning/alert levels calculated and clearly shown
- Temperature is assessed over time, revealing trends

#### Vibration

- High vibration levels can cause serious faults so accurate monitoring is essential
- Excessive vibration levels
- Vibration trends analysed over time

#### **Event log**

- Critical events are highlighted
- Colour coding shows event severity
- Multiple events counted, including alarms, open and close, movement and restarts

#### **Detailed Printed Reports**

 Customers can access detailed printed reports for summary of actions required, highlighted information and asset performance data



Vibration outside specification can lead to premature failure, but this can be detected and rectified before long term damage and downtime occurs.

## **Vibration Analysis**



# Opening Torque Analysis

Torque %



Full Stroke



**Average Torque Analysis** 

Т

Torque

T

T

## **Temperature Analysis**



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# **Contact us now**

mail@rotork.com www.rotork.com

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