

Remote Asset Monitoring for Manufacturers powered by Azure

Gather insight into the health and performance of assets and factories by measuring condition parameters of your industrial equipment.

The challenge

Lack of visibility into asset health and performance leads to quality issues, inefficient production, and unplanned downtime attributed to machine failure.

Unplanned downtime due to machine failure can result in 5%-20% production loss and cost an estimated \$20B annually ^[1]

Equipment running at suboptimal capacity causes declines in OEE and productivity

Production quality suffers due to wear-and-tear, poorly maintained equipment, and environmental factors

Lack of cross-plant visibility hinders best practice sharing and scaling across the enterprise

High operational costs of inefficient maintenance programs and inventory costs for spare parts

The solution

With Azure, manufacturers can improve operations by extracting, analyzing, modelling and visualizing plant floor data in real-time.

Azure IoT

Connect any current equipment to the cloud and extend intelligence to the edge

Azure Databases

Fully managed relational, NoSQL, and in-memory databases

Azure Storage

Secure, massively scalable cloud storage for your industrial data

Azure Analytics

Gather, store, process, analyze, and visualize your operational data

Azure Security

Protect your industrial workloads with unmatched edge-to-cloud security

Azure Stack

Run hybrid remote asset monitoring across datacenters, edge locations and the cloud

Power BI

Connect to all your data sources to analyze, share, and visualize operational insights

How it works

Use sensor data to gain real-time visibility into the health of industrial assets and improve production efficiency.

1 Connect your equipment and measure parameters like machine vibration, temperature, and humidity

2 Collect data from your industrial assets of any volume, variety and velocity

3 Store all your equipment data into a single unified data platform

4 Analyze data with advanced analytics to generate operational insights across all your plants

5 Use dashboards to visualize data from all your plants in real time and enable better decision-making

6 Act on operational insights to improve safety, performance, quality and reduce downtime

Results

Improve OEE and optimize capacity of assets and plants

Make more informed decisions with real-time insights

Enable proactive maintenance with real-time alerts

Prolong useful life of your equipment

Benchmark performance and productivity to scale best practices

Benefits

Head of Manufacturing Operations

- Increase OEE and throughput with real-time data
- Increase product quality
- Maximize equipment and factory uptime

Head of Business Units (P&L Owners)

- Increase the value and quality of production
- Unlock new revenue opportunities
- Optimize energy consumption and plant sustainability

CTO/ CIO/CDO

- Simplify scaling across the enterprise
- Enhance shop floor safety and security
- Simplify machinery management

"With sensors, software and the cloud, these disparate assets can become part of a Connected Enterprise, powered at its core by a rich flow of data."

-Doug Weber
Business Manager, remote application monitoring | Rockwell Automation

[View case study >](#)

[AkzoNobel case study >](#)

[ABB Enterprise Software case study >](#)

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Cloud computing with Azure



Be future ready

Unparalleled data pace, unparalleled stage of innovation, and mission critical AI capabilities that power innovation across the enterprise and supply-chain



Build on your own terms

Commitment to open ecosystems, enabling system interoperability to develop intelligent applications with the tools of your choice



Operate hybrid seamlessly

Consistent performance and scalability across edge, hybrid and cloud, allowing you to bring the power of the cloud to your factory floor



Trust your cloud

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