Intelligent Condition Monitoring

Industrial equipment condition monitoring

Companies are gaining a key understanding of the benefits of centralized condition monitoring and predictive maintenance for their industrial equipment.

Companies creating their own custom solutions face cost challenges when attempting to connect existing machinery, which can require major investments in hardware, connectivity, edge analytics and processing software.

A better approach has been developed that enables customers to connect existing equipment with affordable sensors that connect to directly to the cloud with robust connectivity options built in.

This enables customers to more easily deploy sensors to existing equipment, enabling the many benefits of condition monitoring and predictive maintenance for their operations.

Predictive maintenance improves uptime and lowers costs.

This solution use case provided by Arrow on the MindSphere platform, enables condition monitoring and predictive maintenance for connected machinery, even at remote locations.

This iCoMoX solution provides an embedded sensor-to-cloud platform combining the strengths of a multi-sense device with the key capabilities of MindSphere. This approach is easy to use and maintain.

Collected sensor data including vibration, magnetic field, temperature and sound, enables true condition monitoring for all of your connected equipment. Analysis of that data enables early failure detection and predictive maintenance recommendations that drive improved uptime and reduced costs for maintaining machines. Machines that avoid unexpected breakdowns tend to have a longer equipment lifetime, further improving TCO for customers.

Benefits

• Improved uptime and OEE for connected equipment.
• Reduced costs of maintenance cycles, particularly for remote equipment.
• Reduced time spent on manual scanning and audit related paper trail events.

Features

• High performance acustic emissions detection.
• Condition monitoring for temperature, vibration, magnetic field and sound.
• Ultra-low power consumption.
• Highly reliable wireless SmartMesh IP 2.4 GHz 802.15.4e for industrial environments.
• Compact form factor with various mounting adapters to accommodate a wide range of equipment.

MindSphere Partner Use Case

MindSphere is the cloud-based, open IoT operating system from Siemens that connects real things to the digital world, and enables powerful industry applications and digital services to drive business success. MindSphere’s open Platform as a Service (PaaS) enables a rich partner ecosystem to develop and deliver new applications.