



# Equipment Condition Monitoring

Monitor equipment operations to keep equipment operating at peak performance. Receives real-time preventive maintenance alerts whenever equipment performance reaches pre-set thresholds. Optimize equipment performance and energy with accurate and precise maintenance plan. Shift to preventive maintenance to reduce costs and improve uptime. Early identification of faults to prevent unplanned downtime for pumps, motors, mission critical equipment and civil Infrastructure.

## Use Cases

Can be deployed for:

Pumps and motors - Monitor mission critical equipment and other rotating equipment to keep them operating at peak performance and efficiency

Civil infrastructure – Monitor structures such as bridges and flyovers, train lines, etc to detect long term structural issues and ground movement effect

Airport equipment - Monitor mission mechanical ventilation and conveyor belt systems to minimize unplanned downtime

Tunnels – Monitor mechanical ventilation equipment and equipment in tunnels to provide performance deterioration data for the scheduling of preventive maintenance

Machines – Monitor the vibration patterns for machines to minimize unplanned downtime

## Types of Sensors Used

- Advanced Vibration Sensor

## Hardware/Installation

- Cost effective and simple installation. Simply stick sensor to the equipment being monitored
- Wired and wireless options available
- Improve productivity with up-to-date information through mobile, web and dashboard
- Gain strategic insights into equipment usage patterns and operations by leveraging data
- Cloud Connected

## Key Features



**Performance Deterioration** for identification of degradation as soon as it happens to keep equipment running at peak performance



**Predict Time to Failure** using AI models to provide facility and plant managers advanced warnings



**Faulty Part Identification** using advanced data analysis to target maintenance or replacement of components



**AI and Data Analytics**

## Mobile + Web Access

- **Mobile App** enables users to have 24/7, 365 accessibility to view the status of equipment
- **Web App** centralizes the management of different equipment from multiple locations through a single application

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