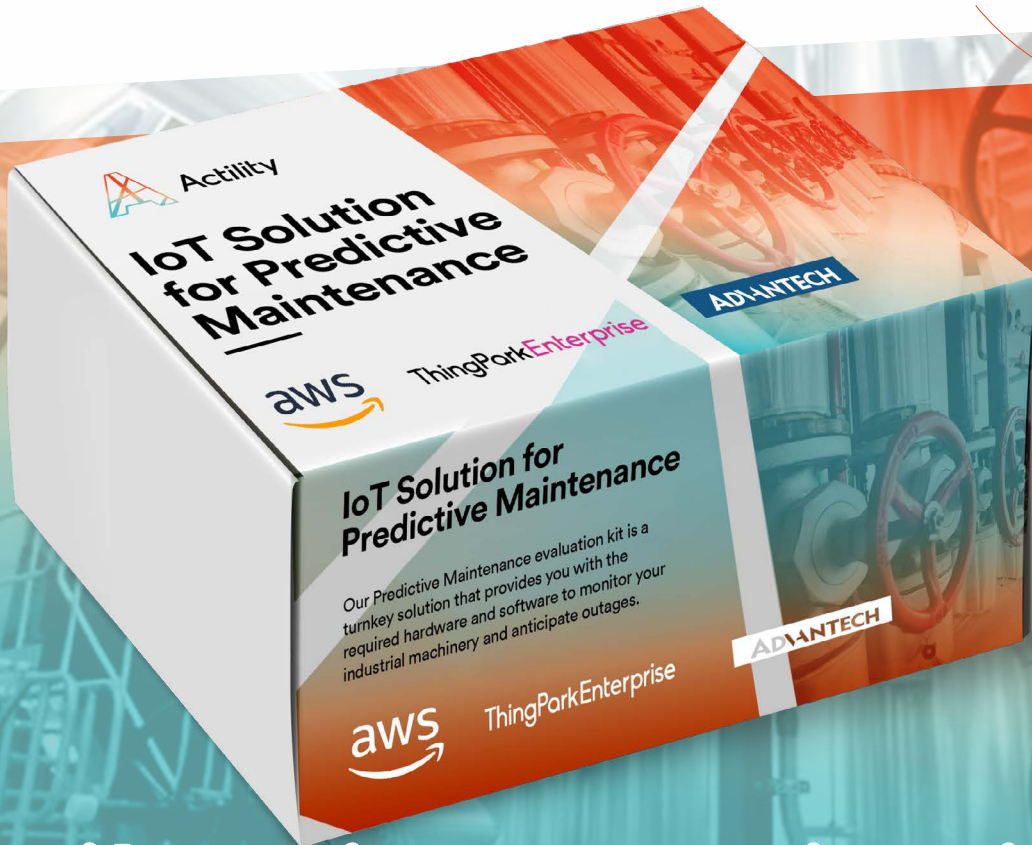


# ThingPark IoT Solutions



## Vibration Monitoring for Predictive Maintenance

The turnkey IoT solution to monitor your machines 24/7.

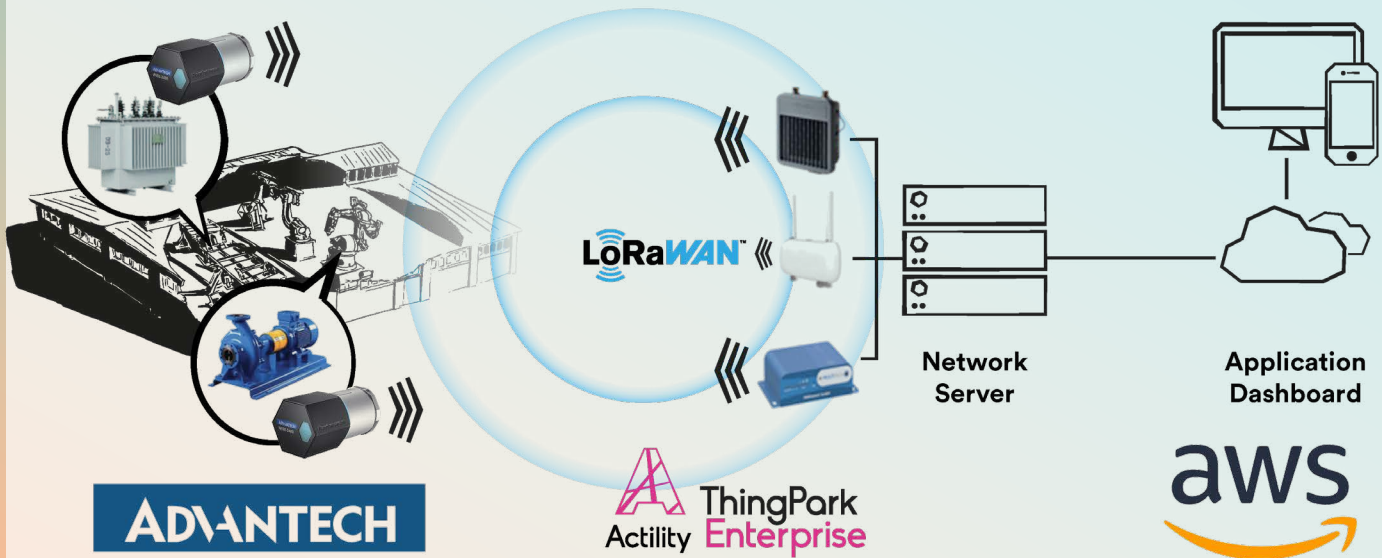
This Predictive Maintenance solution allows to analyze data from **sensors measuring vibrations frequencies** of machines and equipment in order to **detect anomalous behavior**, therefore enabling industrial end customers to **decrease machines shutdowns and work accidents while increasing performance and safety**. This evaluation starter kit provides you with the required hardware, software and connectivity service **to assess this integrated plug-and-play solution**.



**ADVANTECH**



# AI-based intelligent fault diagnosis for rotating machinery using LoRaWAN®:

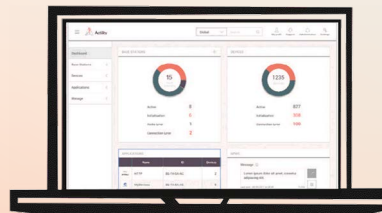


## WISE 2410 IoT sensor by Advantech



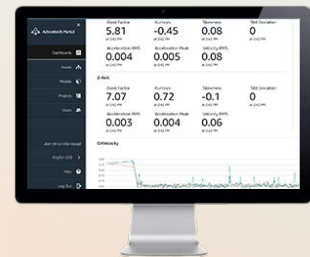
LoRaWAN® wireless condition monitoring sensor integrated with an ARM Cortex-M4 processor, LoRa transceiver, 3-axis accelerometer, and temperature sensor. It follows ISO-10816 inspection standard, suitable for most kinds of rotating facilities in factory.

## ThingPark Enterprise LoRaWAN connectivity infrastructure



Dependable connectivity infrastructure with a proficient UX to easily build a LoRaWAN® network, Cloud-based or On Premises, using pre-integrated high-end Base Stations & an advanced Actility Network Server with dashboards providing key operational insights on the network & alarm management.

## Business Application - AWS IoT SiteWise



Application allowing to collect, organize, and analyze data from industrial equipment at scale, to create dashboards with different customizable visualization types that best display user data, making it easy to explore operational assets and create projects to share assets and dashboards with different teams.



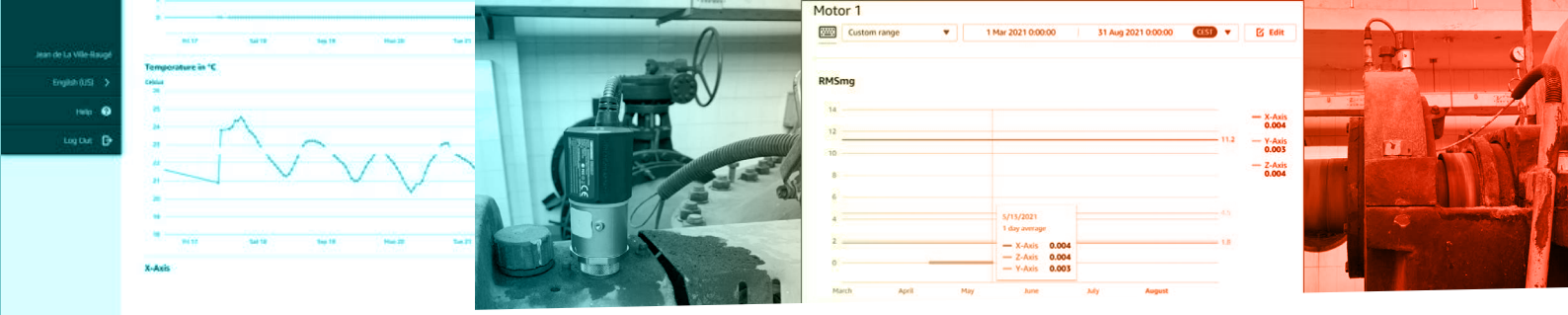
Set up timely verification of any equipment to anticipate eventual problems that may lead to higher costs.



Adopt best practices of appropriate corrective maintenance industry and regulation compliance.



Reduce maintenance costs, downtime, breakdowns, optimize capacity and increase production.



## Key features:



**No disturbance:** sensors conduct non-interference monitoring in the background, collects operational data, and transmits the collected information through the cloud or designated servers for the appropriate team to monitor the equipment conditions.



**Interoperability:** Pre-integrated with Actility application dashboard.



**Standardized solution:** The device follows the worldwide common inspection standard ISO-10816, enabling customers to avoid specific proprietary custom developed solutions and the necessity to learn a new inspection method or algorithm. Compatible selling regions - U.S.A, EU, Brazil, Canada, Thailand, Malaysia, Japan, Korea, Taiwan, Russia, Australia and New Zealand.



**Ease of use:** This end-to-end IoT Solution designed for industrial end customers who requires zero infra, zero cabling, and zero configuration. Available as on-premises & cloud-based application. Device follows a mounting standard so customers can easily replace traditional sensors, using Stud mount, Magnetic Base or Adhesive Metal Base. Manage your installation from one single application dashboard with easy accessibility, usability, management & control.



**Low-Power:** Leverage LoRaWAN® technology, optimize assets energy consumption and lower your operational costs



## Use cases:

Rising automation in the manufacturing sector resulted in increasing demand for the predictive maintenance solution in sectors like Automobile, Semiconductors, Pulp and Paper, Oil and Gas, food and beverage. Examples of monitored machines:



Industrial Compressor



Water Pumps



Spray Compressor



Blower Motors & Grider/  
Gear Pumps

## Build your IoT Solution with us!

Get your starter kit on ThingPark Market, or contact Actility to learn more

