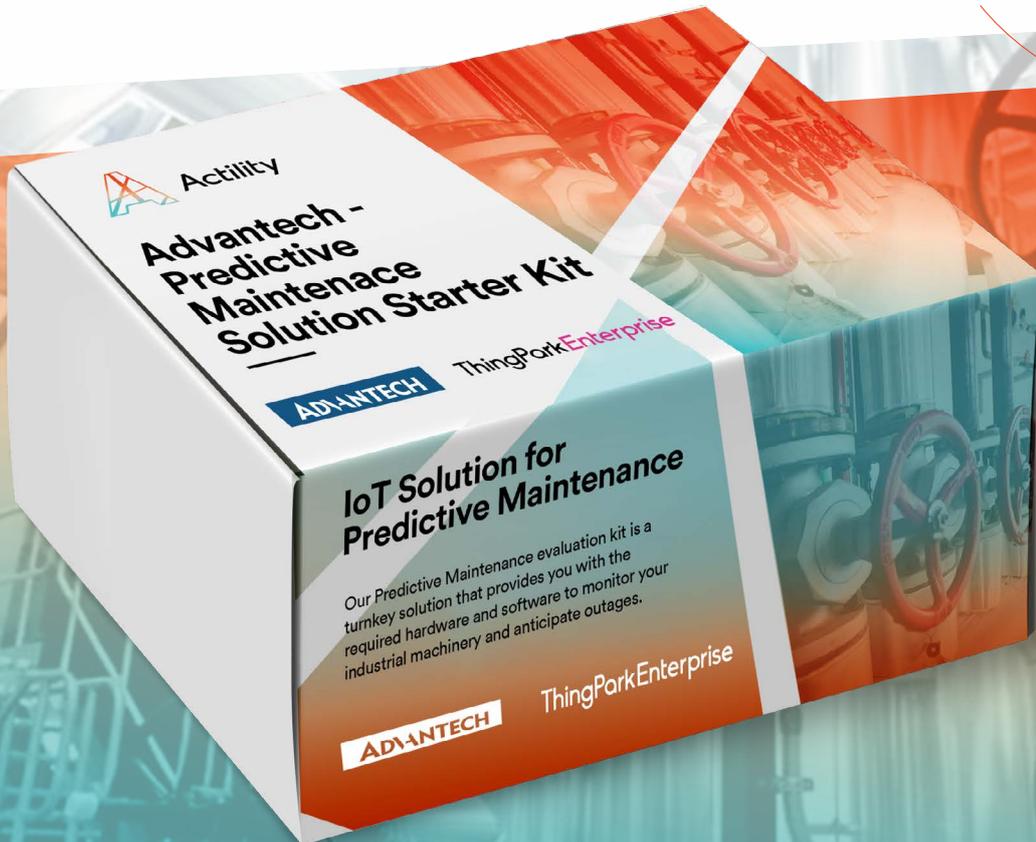


ThingPark IoT Solutions



Vibration Monitoring for Rotating Machinery Solution

The turnkey IoT solution to prevent unexpected breakdowns.

Forget about the uncertainty of machine failures that might cause a shutdown within your production line. The Advantech IoT starter kit helps you anticipate any significant failure event by providing you with the hardware and software to assess a predictive maintenance solution in order to avoid unnecessary energy overconsumption and lack analytics of operations machines' operations insights.

ADVANTECH



Activity

What are the challenges?

-  Industrial manufacturers struggle to understand equipment health and its behavior patterns over time, which by consequence is keeping maintenance costs high with no possibility to prevent machines downtimes before they happen.
-  On-site industrial managers are frustrated by the time they need to invest in health monitoring of their assets in a manual and often inefficient way.
-  Industrial manufacturers are heavily dependent on external services and outdated cloud software to maintain their equipment, which lowers productivity.
-  Factory operators are overpaying for expensive complex legacy non-battery-based sensor equipment and tools.

AI-based Intelligent Predictive Maintenance Solution for Rotating Machinery Solution:



WISE 2410 IoT sensor by Advantech



LoRaWAN® wireless condition and 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.

Advantech UNO2484



Dependable connectivity infrastructure with proficient user experience to easily build a network, Cloud-based or On Premises Advantech ESPR-ACT-UNO2484. An industrial computer with a preinstalled version of Actility LoRaWAN network server – ThingPark Enterprise®.

Advantech - iMachine/ PHM. Smart machine management booster



An application that enables industry experts to collect, organize, be alerted, and analyze data in real time from equipment at scale. Manage assets and create dashboards with different customizable visualization types that best display user desired data.



Key features:



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



Interoperability: Interoperable solution: a pre-integrated solution, reduced unnecessary expensive integration costs.

ISO

Standardized solution: Follows the common inspection standard ISO-10816, enabling customers to avoid specific proprietary custom developed solutions and to learn a new inspection method or algorithm. It follows a mounting standard so customers can easily replace traditional sensors.



Ease of use: Available as on-premises & cloud-based application. 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:

This end-to-end IoT Solution is designed for industrial end customers who requires zero infra, zero cabling, and zero configuration. It 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**.



Water pump

Blower ventilation motor

Industrial compressor

Conveyor motor

Build your IoT Solution with us!

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

