# INDUEYE VIBRO

## BATTERYLESS IOT VIBRATION MONITORING

INDUEYE VIBRO is a *batteryless* solution for vibration monitoring. Our device uses long-range wireless protocols, and is particularly designed to be used in hard-to-reach and cost prohibitive environments.

A robust, a reliable and easy-to-install *Predictive Maintenance* system allows you to remotely monitor the health of your machinery and predict the most optimal time for maintenance.

### Keep your plant up

Detect proactively performance issues to reduce unplanned downtime.

### Waste Heat powered

Batteryless means forgetting expensive battery maintenance and becoming eco-friendly.

### Easy installation

*Plug&Play.* Cables are no longer necessary / a problem. Long-range wireless protocols (up to 2km) require very simple infrastructure compared to low-range protocols (WirelessHART, ISA100, commonly used by competitors) that need gateways or repeaters every few meters.

Our products are fully adaptable to any type of surface (flat, circular, etc.).

### Monitoring dashboard

Use our DAEVIS monitoring dashboard tool or any other cloud-based system: Always choose the best settings to make your decisions.

### Flexible and scalable

It does not matter how many InduEye devices you want to install and where: changing and growing your network is very easy!

It couldn't be easier to change and grow your network!

### Excellent cost savings

Compared to competitors´ wireless solutions (battery-powered), our products reduce the cost of devices, infrastructure, and other recurrent expenses up to 70%. Thanks to the edge-computing capabilities, additional cloud computing cost reductions can be up to 87%.

### Unbeatable environmental savings

More than 98% of reduction in GHG, energy, heat and water during the lifetime compared to current wireless battery-powered sensors from competitors.

### Improve your maintenance tasks

Automated routine operations keep maintenance professionals performing high-value tasks.

AEInnova
Alternative
Energy Innovations

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## Wireless and Batteryless IoT Vibration Monitoring

### Description

INDUEYE VIBRO is a system consisting of four main components:

1. The industrial vibration sensor.
2. The wireless IoT device with edge computing and long-range network capabilities.
3. A thermoelectric generator, capable of powering the entire system using heat.
4. 3rd Party LoRaWAN gateway.

INDUEYE is economical, flexible, scalable and easy to maintain and install, which means that our product is the most competitive solution on the market.

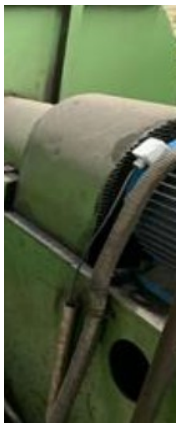
### Use cases

Wireless monitoring system for early detection of faults. It permits to diagnose rotating equipment, check the operation of bearing - gears and test electric motors in the following machines:

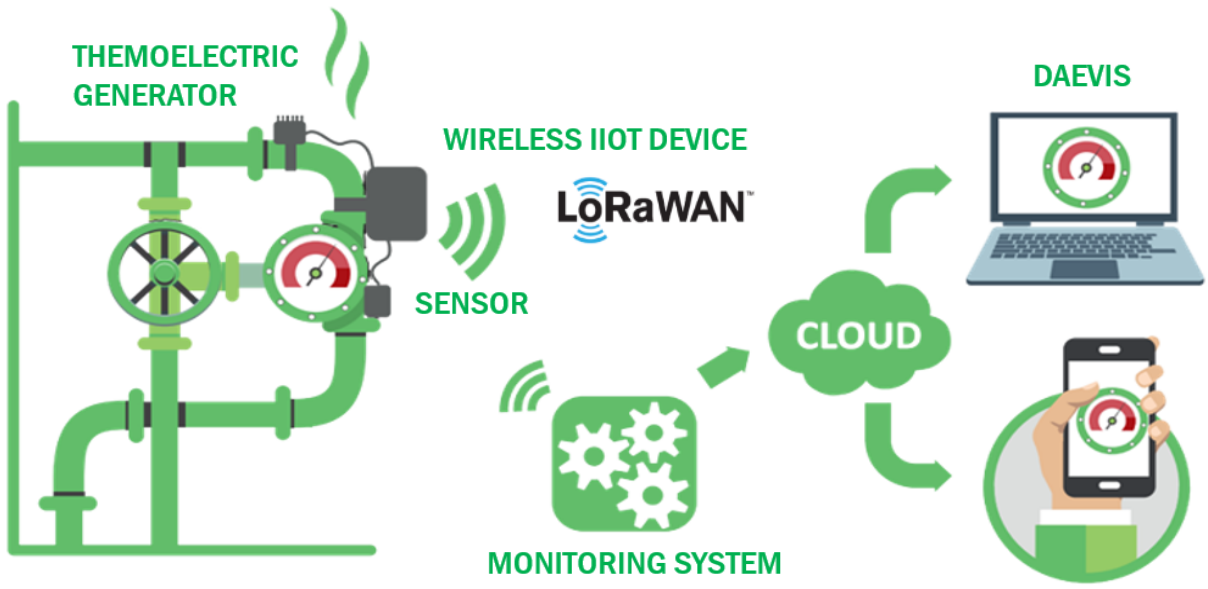
- Pumps, motors, fans, compressors, and turbines.
- Centrifugal separators, blowers, agitators, expenders, and heat exchangers.
- Gearboxes, chillers, belt conveyors.
- Rolling bearings.
- Fluid hammer.

### AEInnova's main system components

### Real use case in a steel facility of Tubacex SA



### LoRaWAN network scenario




Subject to change without notice