

## Leading the Shift to Energy-Centric Predictive Maintenance Unparalleled efficiency in predictive maintenance with a guaranteed ROI or your money back.

Nanoprecise.io stands at the forefront of predictive maintenance with our cutting-edge wireless 6-in-1 sensor. Merging AI and IoT, we offer a comprehensive solution for asset monitoring. Allowing you to focus not just on preventing unplanned downtime, but also enabling you to meet your net-zero goals, by providing visibility into excess energy consumption.

This multi-dimensional approach allows for early fault detection and efficient asset management. Our goal is to empower industries with precise, actionable insights, optimizing maintenance schedules, enhancing operational reliability, and driving growth. With Nanoprecise, you can expect a new standard in asset management, tailored to your industry's unique needs.

### Money Back Guarantee Not seeing the ROI after a year?

Get up to 70% back



## MachineDoctor: The Ultimate in Asset Monitoring



MachineDoctor<sup>™</sup> offers unparalleled reliability monitoring for your assets, combining six crucial monitoring parameters into a single solution. Its plug-and-play setup, plus maintenance, and calibration-free design make it a maintenance manager's best friend. Designed from the ground up with safety in mind, MachineDoctor is certified for the most hazardous work environments and meets an unmatched level of cybersecurity, ensuring your team and data is always protected.





## **The Science Behind MachineDoctor**



## **Specifications**

	Məchine Doctor™, <sup>WIFI</sup>	Machine Doctor™. □TE	$\underset{\tiny LoRA + LTE}{Machine Doctor}$	Machine Doctor™, Lux
Battery Life (depending on operations and communications infrastructure)	2-5 years	3-8 years	5-8 years	>15 years (Energy Harvesting)
Cellular Protocols/ Bands	n/a	2G EDGE & GPRS 3G HSDPA HSUPA WCDMA 4G LTE-FDD (10Mbps) LTE-TDD (3.1Mbps)	<b>2G</b> (B2,B3,B5,B8) <b>4G</b> <b>3G</b> (B1/B2/B4/B5/ B6/B8/B19)	(B1/B2/B3/B4/B5/B7/B8/ B12/B13/B18/B19/B20/B25/ B26/B28/B38/B39/B40/B41)
Dimensions	52mm (2") Diameter x 78mm (3") Tall	72mm (2.8") Diameter x 100mm (4") Tall	72mm (2.8") Diameter x 100mm (4") Tall	72mm (2.8") Diameter x 100mm (4") Tall
On-board Memory Storage	4MB (avg. 500kB/day, 4x VIB TWF/Day) up to 3 days			







## **NrgMonitor**: Empowering Sustainable Operations

NrgMonitor<sup>M</sup> helps shift operations away from Reliability Centered Maintenance to Energy-Centric! Using Al-driven insights manufacturers can track and optimize energy consumption and CO<sub>2</sub> emissions across motor-driven equipment. This platform not only highlights inefficiencies for actionable improvement but also supports businesses in achieving their Net-Zero goals through detailed monitoring of power usage, CO<sub>2</sub> output, and the financial impact of energy loss. Suitable for a wide range of rotating equipment, NrgMonitor offers a fast path to a quick ROI, making it an essential tool for reducing your carbon footprint, while driving profitability.

## How It Works: Eco-Efficient and Intelligent

Contributes to your Net Zero goals by providing visibility into excess energy consumption.





# Asset Intelligence Redefined with RotationLF

RotationLF, developed by Nanoprecise, revolutionizes predictive maintenance through AI and advanced signal processing. Leveraging CEEMDAN for accurate signal analysis, it provides automated fault diagnostics and actionable insights. Designed for scalability, RotationLF integrates seamlessly with existing systems, ensuring a flexible and efficient approach to monitoring and maintaining a wide range of industrial equipment. This solution not only enhances equipment reliability but also significantly reduces maintenance costs and downtime, marking a new era in asset management.

## **RotationLF Enhancing Maintenance**

## Custom Al Deployment:

RotationLF utilizes AI tailored to specific plant and equipment types, employing both supervised and unsupervised learning to adapt within days.

#### Automated Fault Diagnosis:

Al-driven diagnostics identify equipment faults, offering automated recommendations for action.

#### Scalability and Integration: Designed for flexibility, RotationLF can be deployed on private clouds or on-premise and integrated with

existing technologies

via open APIs.

#### Advanced Signal Processing with CEEMDAN:

Employs CEEMDAN for efficient signal processing, enhancing IMF separation, and reducing false negatives in variable frequency equipment.

## CE











Nanoprecise

## **Beyond Monitoring: The Nanoprecise Solution**



Proactive Alerts:

Al-driven notifications, keeping you informed and efficient.



Intelligent Analysis & Insights: Edge-to-cloud analytics, identifying issues before they escalate.



## Expert Support When You Need It:

Our seasoned analysts are on standby to guide you through any concerns, ensuring your assets are always in top form.



#### **Predictive Precision:**

Forecast your machinery's lifespan for a clear maintenance roadmap.



#### Anytime, Anywhere:

Wireless, smart monitoring in even the most remote parts of your plant...or the world!

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#### **Integration Made Easy:** Customizable APIs, to blend

our insights into your existing tech ecosystem for enhanced operational harmony.

