



Enhancing Performance & Durability in Steel Plants

with Electrical Asset Condition Monitoring



Monitor your industrial assets to get more out of them

RM's Solution for Steel Plants

Enhancing efficiency and reliability is essential in the steel manufacturing sector, where the process is energy-intensive and multifaceted, consisting of numerous intricate unit operations. The quality of steel produced hinges on the seamless operation of each process, necessitating constant vigilance and monitoring. Automation plays a pivotal role in streamlining operations, but it comes with its own set of challenges, particularly in managing the extensive electrical infrastructure required.

Welcome to the future of steel production, where efficiency, reliability, and safety are at the forefront. In the fiercely competitive landscape of steel manufacturing, maintaining the optimal performance of electrical assets is paramount.

We at Rugged Monitoring are motivated to provide innovative and exceptional quality products, our vision remains focused on meeting customer requirements while anticipating and exceeding the needs of a continuously changing dynamic market.

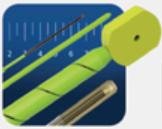


Challenges in Steel Plants

Steel plants operate under harsh conditions, subjecting electrical infrastructure to extreme temperatures and corrosive environments. These conditions pose significant challenges, including downtime, safety risks, and decreased productivity.



Our Solution



IoT sensors



Edge Devices

We at Rugged Monitoring provide customised solutions with specifically designed IIoT sensors, Edge Devices and Advanced Asset Performance Management Software. Our Electrical Asset Condition Monitoring system provides comprehensive monitoring and diagnostics for all critical electrical equipment in steel plants.

By continuously monitoring key parameters such as



temperature



vibration



electrical
characteristics

our system detects potential issues early on, enabling proactive maintenance and minimizing the risk of unexpected failures.



Advanced Asser Performance Management Software

Benefits

- Maximizes equipment uptime by proactively identifying potential failures.
- Enhances safety by monitoring critical parameters and detecting abnormalities.
- Optimizes maintenance schedules to reduce downtime and boost productivity.
- Extends asset lifespan by preventing premature equipment failures.
- Provides real-time data and insights for informed decision-making.



Features

- Remote monitoring capabilities for easy access to real-time data.
- Customizable alerts and notifications for proactive maintenance.
- Scalable architecture to accommodate future expansion and growth.
- Seamless integration with existing plant infrastructure.
- User-friendly interface for intuitive operation and management.

R501 Rack Mount Comprehensive and Customizable Asset Monitoring Solution

R501, the customizable, rack mount, comprehensive electrical asset condition monitor is designed to monitor multiple electrical assets and its parameters enables a simple and user-friendly interface. R501 provides condition monitoring of electrical assets by focusing on preventing asset failures and reduce downtime. With our comprehensive monitoring solution, the health of assets can be determined, and maintenance activities can be scheduled. The R501, our versatile rack-mounted monitor, with its customizable features allow you to monitor multiple assets simultaneously, providing a user-friendly interface and an extensive range of parameters to track. The R501 focuses on preventing asset failures and minimizing downtime, empowering you to take proactive maintenance actions.



Features of R501

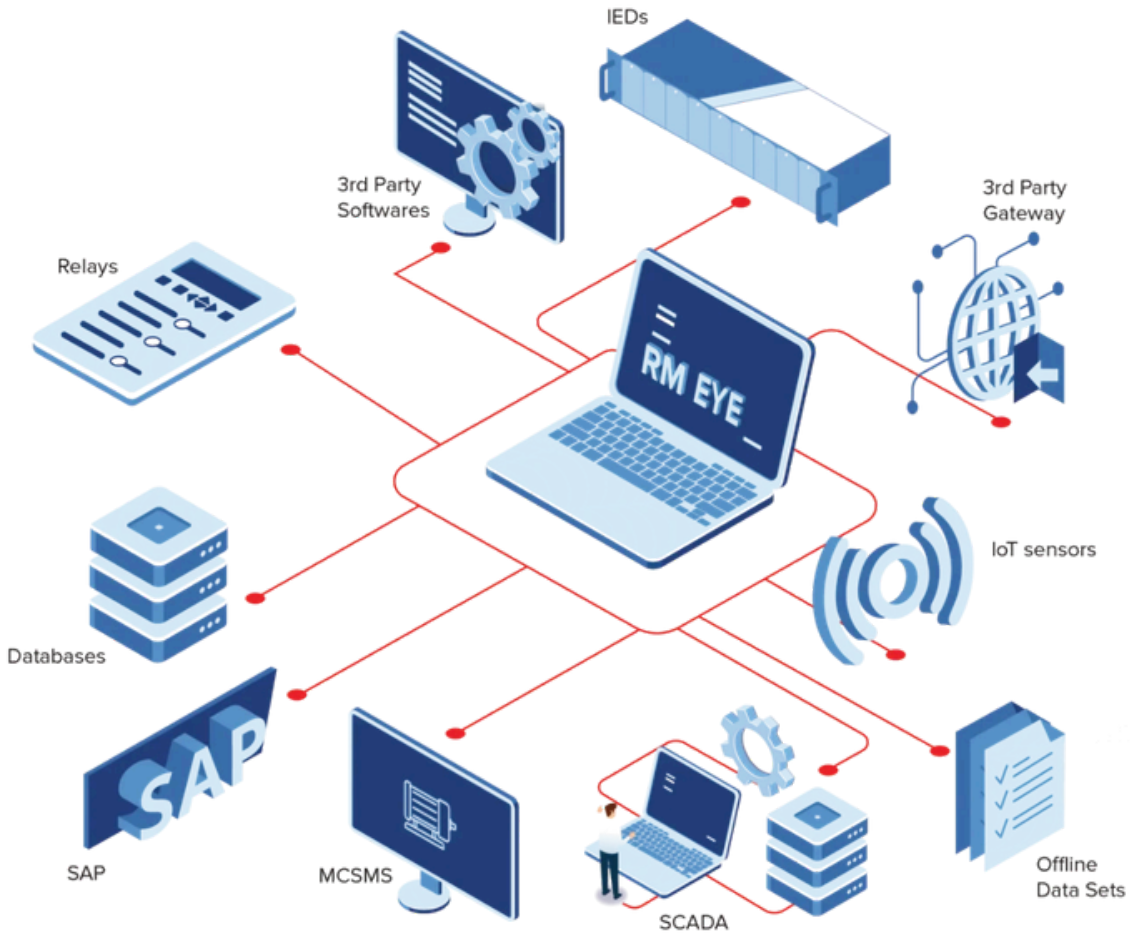
- Expandable with daisy chain & Field Upgradable to add different monitoring modules.
- Highly secure, web server-based visualization and configuration software
- Simple visualization & easy to configure.
- Equipped with most accurate & advance health assessment analytics.
- Range of communication options and protocol support; ethernet redundancy (PRP)

Benefits of R501

- Improved asset reliability
- Accurate predictive analysis
- Access asset data from anywhere
- One monitoring solution for multiple assets
- Increased asset lifetime
- Highest return on investment
- Field upgradable with no device downtime

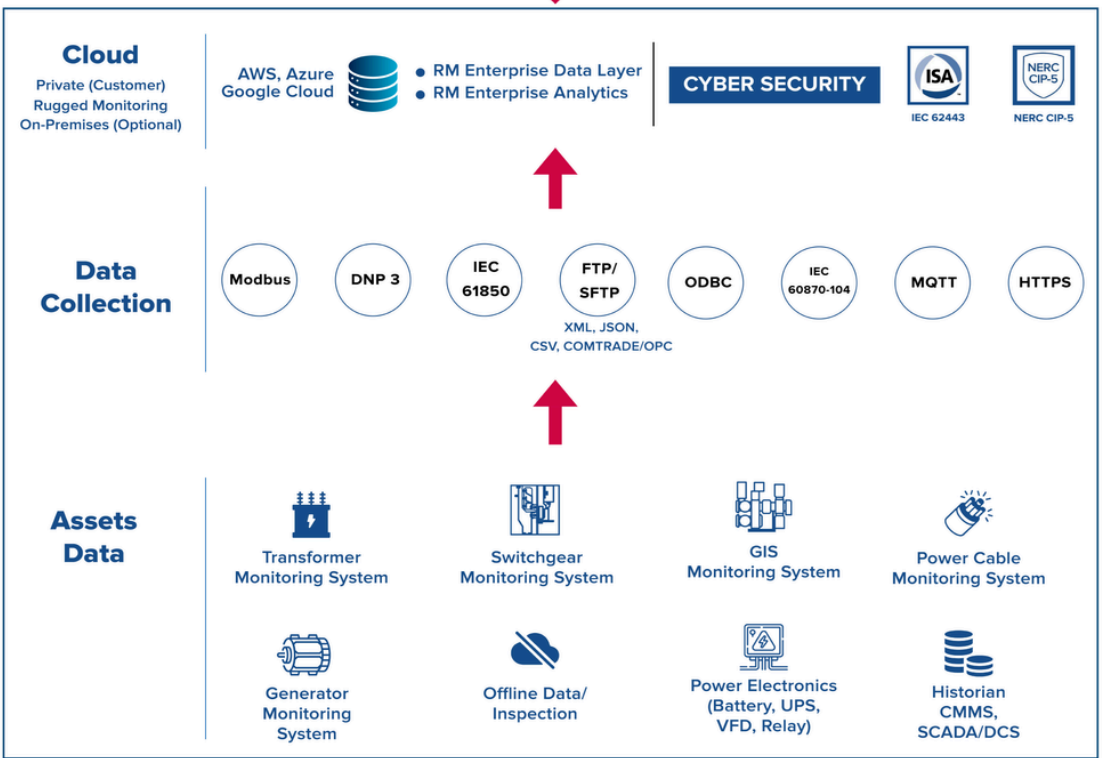
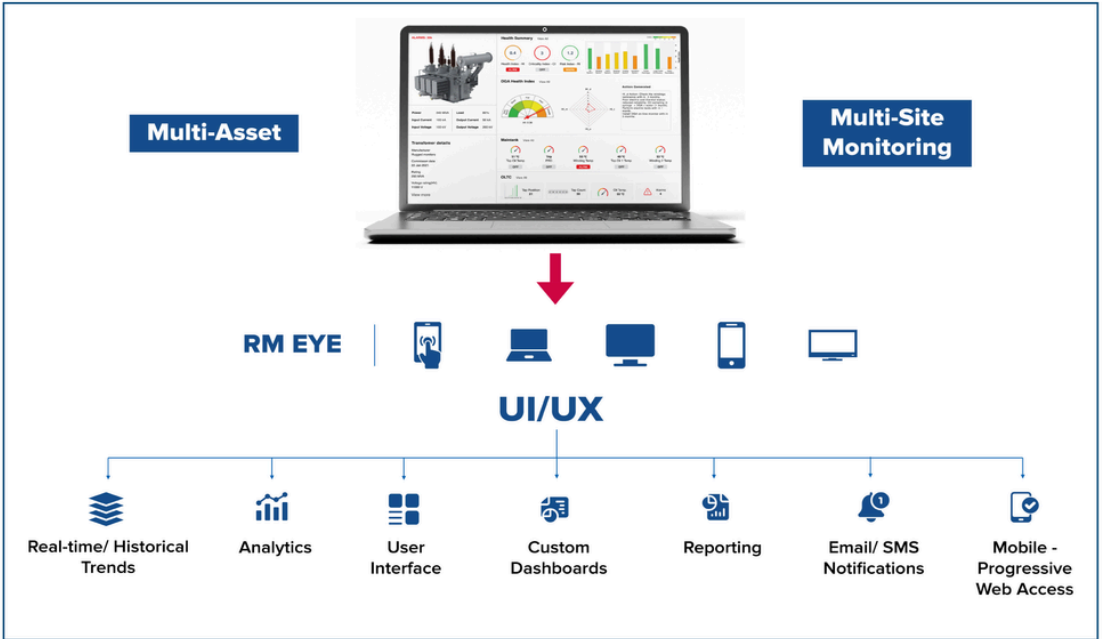
Enterprise APM Suite: RM EYE

RM EYE represents a paradigm shift in enterprise asset performance management through the condition monitoring of electrical assets. It uses an AI-driven approach to assess the health and performance of diverse assets, delivering transformative and sustainable outcomes related to their health, performance, energy efficiency, and integrity.



Rugged Monitoring's RM EYE transforms traditional time-based maintenance into a proactive approach, equipping businesses with real-time insights into the health of their electrical assets. By detecting potential issues early on it helps create a dependable and efficient predictive maintenance system.

RM EYE Architecture



One Solution for Multi-Site Multi Asset Monitoring

**RM Eye - Unified platform to monitor entire network
of electrical assets**

Features

- **Advanced asset health monitoring** with analysis and recommendations to increase asset effectiveness in addition to maximizing equipment uptime
- **Modern remote monitoring solutions** provide valuable insights to Multiple Assets at Multiple Sites from time to time
- **Establish a real time and consistent monitoring** by getting the right information into right hands
- **Simple and user-friendly interface** providing easy and fast access to all the features
- **Everything about the asset at one place**
The raw data, analysis and recommendations
- **Advanced asset algorithms** for electrical assets to evaluate asset health
- **Advanced reporting technology with automated alerts**
- **An efficient, reliable partial discharge monitoring** for all the assets
- **A detailed comprehensive DGA analysis**
- **Built on well-established remote and cloud-based monitoring technology**
- **Quick configuration** so that you are not required to configure separately.
- **Protocols: IEC 61850, MODBUS, MQTT**
- **Robust integration with 3rd party systems and devices** with industry standard protocols
- **Bulk configuration imports for fast deployment**
- **Encompasses a secure access to data and configuration**
- **QR code scanner on mobile devices**
- **Accessible on web browser and mobile app**
- **Historical data storage and on demand access** via export feature
- **Extended multilingual support** to handle product inquires or troubleshoot problems proactively
- **Systematic fleet management analysis**
- **Offline test data integration and analysis**

Why Customers Choose Us ?



Expertise You can Trust

Backed by 100+ years of experience, we understand the unique demands of critical asset management across diverse industries.



Focus on Sustainability

Our Solutions are designed to help you reduce energy consumption, minimize waste, and align with your sustainability goals.



Money Matters

We offer competitive and transparent market pricing to protect you from currency fluctuations.



Customer Centric Approach

From consultation to deployment and beyond, we are committed to delivering exceptional support, personalized service, and timely project completion.

CERTIFICATIONS



ISO 9001:2015

ISO 14001:2015

ISO 45001:2018



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