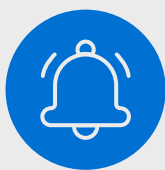


RM EYE

Advanced Asset Performance Management System



AI &
Asset Health
Models



Alarm & Alert
Notification
in Email & SMS



Supports On
Prem & Cloud



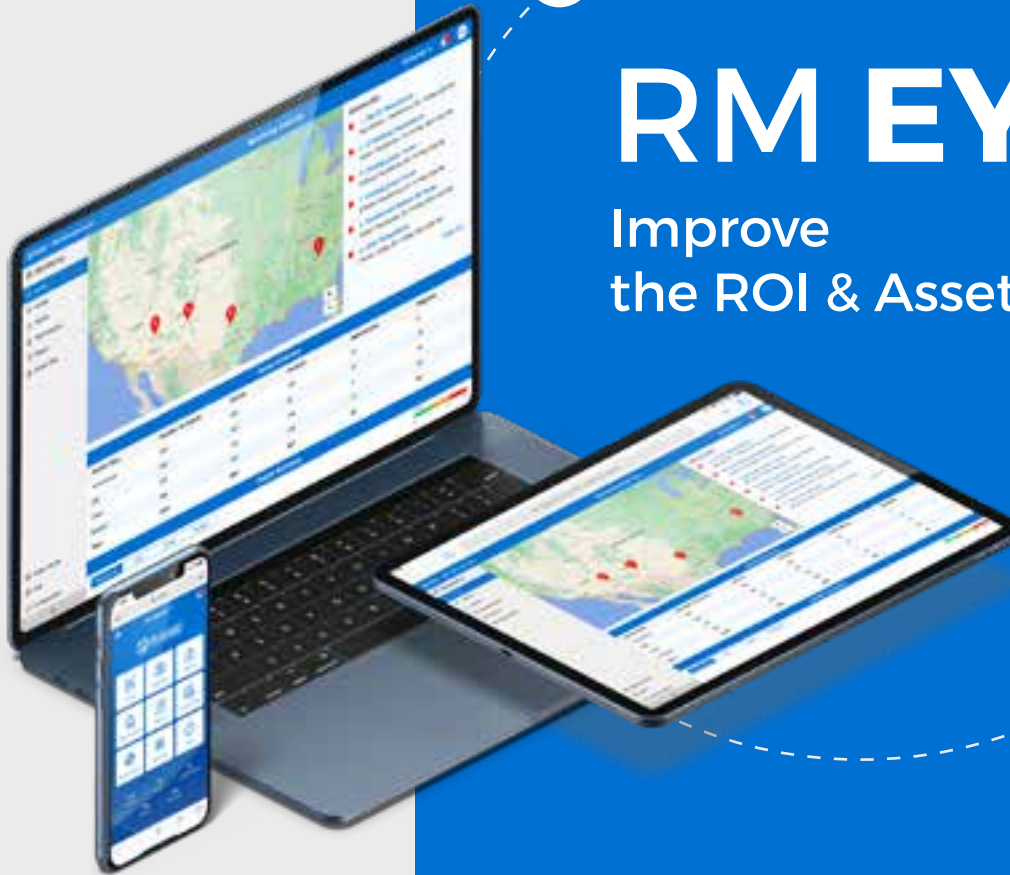
Advanced
Reporting



Data
Security



Seamless
Integration



RM EYE

Improve
the ROI & Asset life.



- 1 Advanced Asset Performance Management System
- 2 One solution for all electrical assets
- 3 Remote monitoring of network of assets
- 4 Avoid unplanned outages
- 5 Reduces cost of planned outages
- 6 Extend the life of your electrical asset
- 7 Minimize asset replacement costs
- 8 Most advanced OEM agnostic solution
- 9 On-prem or cloud based monitoring
- 10 Machine Learning and Digital Twin Capability
- 11 ISO 55000 Implementation

Monitor your
Electrical Assets
Now!

Industry Solution for



Utilities



Power plants



Solar farms



Wind farms



Battery storage stations



Refineries



Metals and Mining



Data centers



Oil and Gas



Charging station



Steel plant



Industrial plants



Marine



How RM Eye help users?

For companies who want to do the condition monitoring of multiple assets across multiple location with one system, RM EYE is the industry leading Condition monitoring system. RM EYE emphasizes technological research, domain expertise, and takes an innovative approach for condition monitoring of the electrical assets. It considers every aspect in condition monitoring of different assets and users to give the best recommendation for longer and better health of the assets.



RM EYE is Rugged Monitoring's comprehensive electrical asset condition monitoring solution that provides a 360 degree Accurate, highly reliable, multi-site, multi asset condition monitoring for all the electrical assets like Transformer, Power Cable, GIS, AIS, Motors, Generators, MV Panel, VFD, Battery, UPS, relays etc. The software is modular and flexible condition monitoring solution for utilities and industrial customers around the globe.

RM EYE is an effective intelligent system with user-friendly interface and advanced industry standards. The scalable solution helps in digital transformation of asset condition monitoring, helping the customers in digitizing the condition monitoring for offline testing, periodic testing, and online testing.

The RM EYE solution is a web-based application, which is multi browser compatible, and it is also available on mobile as PWA, enabling 24 x 7 remote access to the assets. It offers health analytics of the complete fleet across multiple locations in terms of Health Index, Risk index and Remaining Lifetime index to help customers plan the maintenance and replacement in more informed manner. The advanced analytics and health indexes help removal of unnecessary maintenance and replacements and improve the ROI.

Benefits



Company

- ✓ Single monitoring solutions for multiple assets
- ✓ Avoid unscheduled outages and increase asset utilization
- ✓ Extend asset life, with proper maintenance
- ✓ Reduce insurance premium with most advanced monitoring
- ✓ 24 x 7 remote monitoring, accessible from anywhere



Manager

- ✓ Decision support system for short term and long term planning
- ✓ Company, region, substation analysis on your fingertips
- ✓ Effective management and tracking of monitoring KPIs
- ✓ Identify problem areas with interactive dashboards
- ✓ Advanced and automatic management/regulatory reports



Asset Experts

- ✓ Deep analysis of diagnosed faults with advanced analytical tools
- ✓ Complete asset data at one location
- ✓ Customise and generate automatic reports for subscribed assets
- ✓ Ready access to historical data for root cause analysis



Operators

- ✓ Quick identification of problematic assets in the network
- ✓ Get real time alarm/ alert notifications
- ✓ Realtime updates about the assets on mobile, desktop and emails
- ✓ Quick access to assets with QR code scan on handheld devices

Advanced Asset Performance Management System

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**

Parameters Monitored

for different Asset Types



RM EYE

Asset Monitoring : Enterprise Architecture

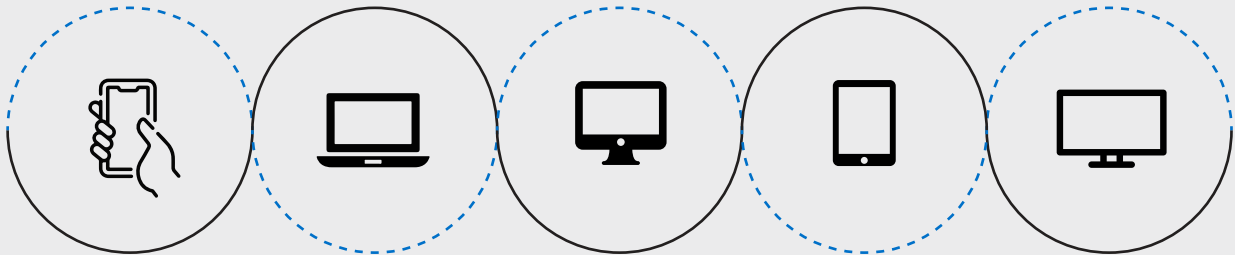
Compatible with Rugged Monitoring Enterprise Solution

UI UX



- Data Layer
- Analytics
- User Interface
- Custom Dashboards
- Reporting
- Email/SMS Notifications

RM EYE



Private Cloud (Customer Cloud),
Rugged Monitoring Cloud

IEC 60870-104

IEC 61850

FTP/SFTP

- XML, JSON

- CSV, COMTRADE



Data Collection

ODBC

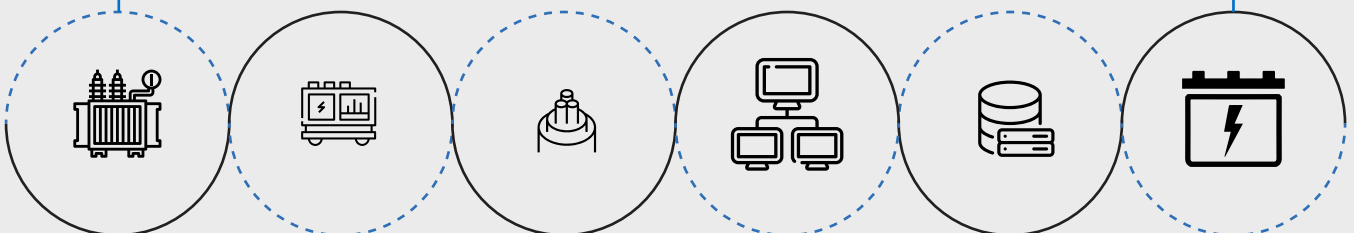
MODBUS

DNP 3.0

HTTPS

MQTT

Asset Data



Transformer
Monitoring
System

Switchgear
Monitoring
System

Power Cable
Monitoring
System

- Offline Test Results
- Inspection Records
- Name Plate

- Historian
- CMMS
- SCADA/ DCS

Power Electronics
(Battery, UPS,
VFD, Relay)

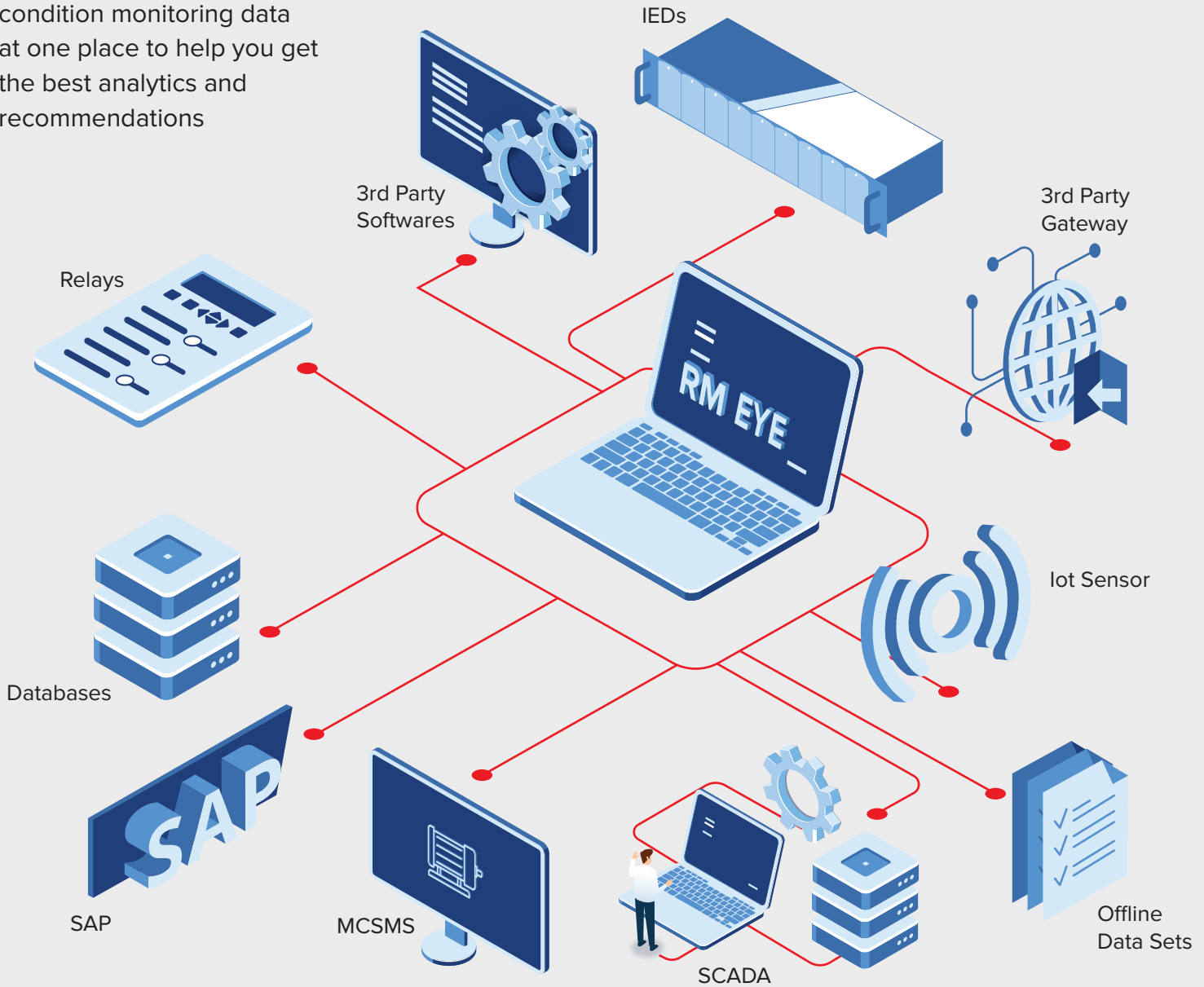
Technical Specifications

Asset Types Monitored	<ul style="list-style-type: none"> - All types of Transformers - Switchgears (AIS, GIS, MV Switchgear Panels) - Power Cables - Generators and Motors - Surge Arrestors - Capacitor Banks - Battery Banks - Protection Relays - Variable Frequency Drives (VFDs) - Towers and Overhead lines
Number of Asset Monitored	<ul style="list-style-type: none"> - Depends on hardware platform - Software can support monitoring of Less than 10 Assets to 1 Million+ Assets
Scalability	<ul style="list-style-type: none"> - Scalable to add additional assets at later stage - Will require licences to add more number of assets in future
Modularity	<ul style="list-style-type: none"> - Modular to add more features (Dashboards, Reports, users etc.) - Modular to add new assets and asset types on existing installation - Supports SaaS model, easy to integrate third party analytics
Hosting / Installation Options	<ul style="list-style-type: none"> - On-Prem (into Customer Data Center) - Customer Cloud Hosting - Rugged Monitoring Hosted Cloud (Subscription based)
Analytical Models	<ul style="list-style-type: none"> - Asset health Assessment Analytics for Fault Identification and Categorization - Advance Health Index, Risk Index and Criticality Index Analytics for Fleet of Assets - Asset Aging Analytics and Remaining Life Assessment
Alarm / Alert Notification	<ul style="list-style-type: none"> - Real-Time Alarm and Alert Notification using Traffic Light Indications - Alarms related to issues with Assets, Communication Failure, Power Failure, System Fault, Sensor Failure etc. - Alarm summarization for Substation, Region and Company Level - SMS / Email Notification (Optional)
Visualization and Dashboards	<ul style="list-style-type: none"> - User configurable visualization for different roles, Company, Region, Substation and Asset Level - Advance Analytical Visualization for all Assets - Easy to navigate to the problematic Asset
Reporting	<ul style="list-style-type: none"> - Advance reporting engine with flexibility to configure different Reports - Automatic Report Generation on User defined criterion / time period - Automatic Email feature for Reports
Data / Cyber Security	<ul style="list-style-type: none"> - Compliant to NERC CIP5 standard - Complaint to IEC 62443
User / Role Management	<ul style="list-style-type: none"> - Easy Integration with Customer Active Directory Control - Functionality to create roles and users for limiting access to the system - Provides flexibility to limit data access and screen level access - Latest Password Protection Practices
Data Input Protocol Supported (for Third Party Monitoring System Integration)	<ul style="list-style-type: none"> - Modbus, DNP3.0 - IEC60870-101, IEC60870-104, IEC60870-105 - IEC61850 - OPC-DA, OPC-UA - MQTT
Data Input File Supported	FTP/SFTP of following file formats: CSV / Excel, JSON, XML, and PDF
Data Export Protocol Supported	Modbus, DNP3.0, IEC60870-104, IEC61850, OPC-DA, OPC-UA, MQTT
Data Export File Supported	FTP/SFTP of following file formats: CSV / Excel, JSON, XML, and PDF

Seamless Integration

Seamlessly integrates with any system communicating over the industry standard protocols like IEC 61850, MODBUS, DNP3, MQTT etc. Robust and swift integration allowing superfast data acquisition from any IED or software, and distribution of data to multiple IEDs and systems.

Helps to keep all the condition monitoring data at one place to help you get the best analytics and recommendations



Technological strengths



Realtime Updates



Responsive UI



Robust Architecture



Cyber Secure



Future Proof Techstack

Why Customers Choose Us?

RM solution, the trusted monitoring solution for over 10000+ assets across 50+ countries. We are a leading High Value Electrical Asset Monitoring Company integrating fibre optic technology to the assets.



Attention to Details

It's our attention to the small stuff, scheduling of timelines and keen project management that makes us stand out from the rest.



A plan for Success

Our Customers are well satisfied with the advisory services that we offer to help them with best in class technological performance and a long durable life.



Experts only

We bring-in our diversified experienced team with over 100+ years of experience in Asset Monitoring



Meeting Deadlines

Work with us, and you'll work with seasoned professionals – vigilant of deadlines, and committed to exceeding client expectations.



Money Matters

We protect you against currency fluctuation with competitive and fair market prices



Rugged Monitoring Services

Rugged Monitoring provides customization of sensors, monitors & software. In addition we offer on-site commissioning services, maintenance contracts and technical support to all customers worldwide.

About Rugged Monitoring

Industry's leading team of asset condition monitoring experts with 100+ years of combined experience committed to delivering customizable solutions for challenging applications. We offer a range of reliable, high performance, customizable sensors and monitoring solutions that are immune to external influence.

Certification



ISO 9001



ISO 14001



ISO 45001/
OHSAS 18000



Lloyd's
Register



ATEX
Certification



IEC 62443



NERC CIP-5


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