

# RM EYE: THE DIGITAL INSPECTOR



From Imperfect Field Data to Actionable Asset Intelligence

SEAMLESS INTEGRATION | HIGH SCALABILITY

# THE PROBLEM

## Most Asset Decisions Are Based on Incomplete Data

Across GIS and substation environments, asset condition assessment is still largely dependent on:

- Periodic measurements performed at fixed intervals
- Manual inspections with varying levels of accuracy
- Disconnected parameters evaluated in isolation

These practices provide only partial visibility into asset behavior. Data is often delayed, inconsistent, and lacks the context required for reliable diagnostics.

As a result, maintenance and operational decisions are frequently based on incomplete or outdated information, increasing the risk of unexpected failures and inefficient resource allocation.

## The OT / IT Disconnect

A fundamental gap exists between field-level operations and enterprise systems.

- **Operational Technology (OT) Environment**
  - Offline or standalone devices
  - Manual data collection
  - Periodic and non-continuous measurements
- **IT / Enterprise Systems**
  - Continuous data ingestion
  - Structured and standardized inputs
  - Centralized analytics platforms

This disconnect prevents critical field data from being effectively utilized, resulting in loss of insight between inspection cycles and missed early indicators of degradation.

## Start with what you already have.

Existing measurements and inspection data contain valuable information if captured, structured, and integrated correctly.

No additional instrumentation is required to begin.

# THE RM SOLUTION

## Capture, Integrate, and Structure All Field Data

### The Digital Inspector Solution

The Digital Inspector bridges the gap between field operations and enterprise analytics by enabling structured data capture directly at the source.

It transforms manual and analogue inputs into standardized, usable data through:

- Mobile-based inspection data capture in the field
- Integration of existing analogue and digital measurements
- Consistent data structuring across assets and inspection types

This creates a reliable and unified data foundation, ensuring that all asset-related information, whether automated or manual, is captured in a consistent format.

### System Architecture

#### One system. One data stream. From field to cloud.

The Digital Inspector integrates multiple data sources into a single, structured data pipeline:

- **Automated Data Streams**  
Integrated via secure MQTT protocols from existing monitoring systems
- **Manual Inspection Data**  
Captured via mobile applications or APIs during field inspections
- **Secure Data Ingestion**  
All data is transmitted and consolidated into a centralized, private cloud environment

This architecture ensures that both real-time and periodic data are unified into a single, continuous data stream, enabling accurate, context-rich asset analysis.



# THE BUSINESS **IMPACT**

## From Data to Better Asset Decisions

### Business Value

By integrating all available asset data, both automated and manual, organizations gain a complete and reliable view of asset conditions.

This enables:

- Comprehensive asset visibility across fleets
- Reliable trend analysis over time
- Early identification of emerging risks
- Optimized maintenance planning and resource allocation

The result is a transition from reactive maintenance practices to proactive, condition-driven asset management.

### Key Differentiator

#### One Clear Health Indicator per Asset

The Insulation Gas Health Index (IGHI) provides a standardized and simplified representation of asset condition.

It enables:

- Consistent condition assessment across all assets
- Fleet-wide ranking and prioritization
- Risk-based maintenance and investment decisions

By converting complex datasets into a single, actionable indicator, IGHl allows stakeholders at all levels, from engineering to operations and management, to make informed decisions with confidence.



# START SMALL. SCALE WITH VALUE.

- Rapid pilot deployment within weeks
- No complex IT integration required
- Immediate value from existing data sources

*Transform your field data into actionable asset intelligence.*

Contact Rugged Monitoring to initiate your pilot deployment and begin your digitalization journey.

[Get Started](#)

## CERTIFICATIONS



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018

Canada

1415 Frank-Carrel, Sulte , 230, Quebec, QC-G1N , 4N7, CANADA

Asia Pacific | China | India | Middle East & Africa | Europe | North America | Latin America

+1-418-767-0111

[info@ruggedmonitoring.com](mailto:info@ruggedmonitoring.com)

[www.ruggedmonitoring.com](http://www.ruggedmonitoring.com)