

VizionEye™

Monitor & safeguard, continuously.
Save your critical assets before they fail...

About VizionEye™

365 x 7 x 24 Predictive Thermal & Energy Monitoring Solution - Built on web technologies better suited to handle Real- Time enterprise-level data and reporting.



VizionEye™

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The Problem

A compromised joint can be identified by the excess heat generated (Newton's Law of Cooling). However, is the circuit on which the joint resides is at low load (typically below 40% of design load), there is insufficient current to generate excess heat, there for making it very difficult for a fault to be detected early via thermography.



Continuous minute-to-minute monitoring



Prevent and predict the failure before it even happens.

Be it an electrical busbar LV & MV panel, UPS, Transformer, or a datacenter distribution rack.

Compromised joint / terminations are recognized as the most common cause of serious electrical outages / ARC flash incidents. The current methods of attempting to detect this critical issue is periodic thermal imaging inspections.

Thermal imaging inspection either require the opening of electrical panels or external inspection which must be correlated to calculate the actual joint temperature inside the panel. In today's high uptime industry, it is increasingly being recognized that mission critical facilities must be continuously monitored as a "best practice" policy.

When a single power outage due to a switchgear failure can cause loss of revenue or even to lives, only a continuous condition monitoring of temperature can help to predict in advance a complete failure of the equipment, enabling FM personnel to prevent more than 70% of failures due to human errors / mistakes.

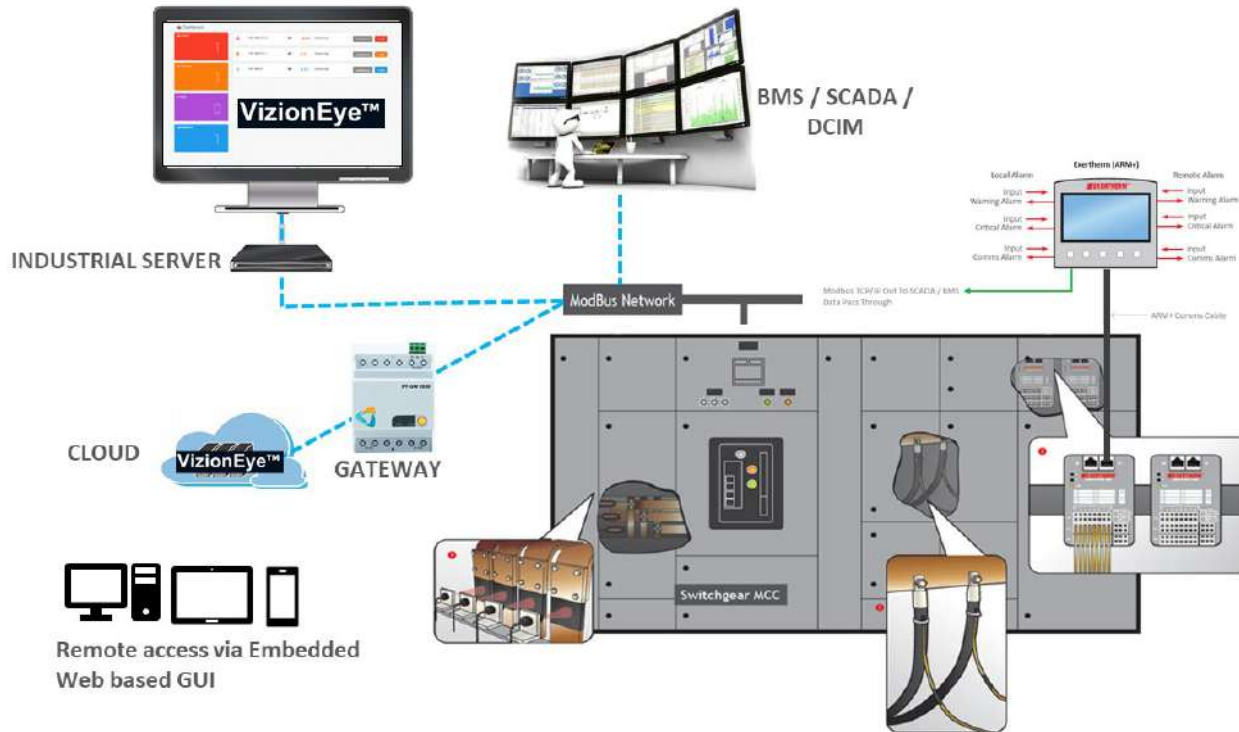
Now, monitor the temperature of your critical electrical assets from your smart devices all day and all night, using the non-powered, contact or contactless, maintenance free & calibration free sensor technology.

Predictive maintenance



Identify potential failures and increase the production of highly critical assets with insights and alerts.

Remotely monitor, analyze energy quality and energy-consuming assets, suits all business needs and can provide up to date, reliable and continuous data across multi-site span.



Benchmark & thresholds



Configure the thermal limits that according to international thermography standard.

Set the ideal temperature range that you feel appropriate for the devices.

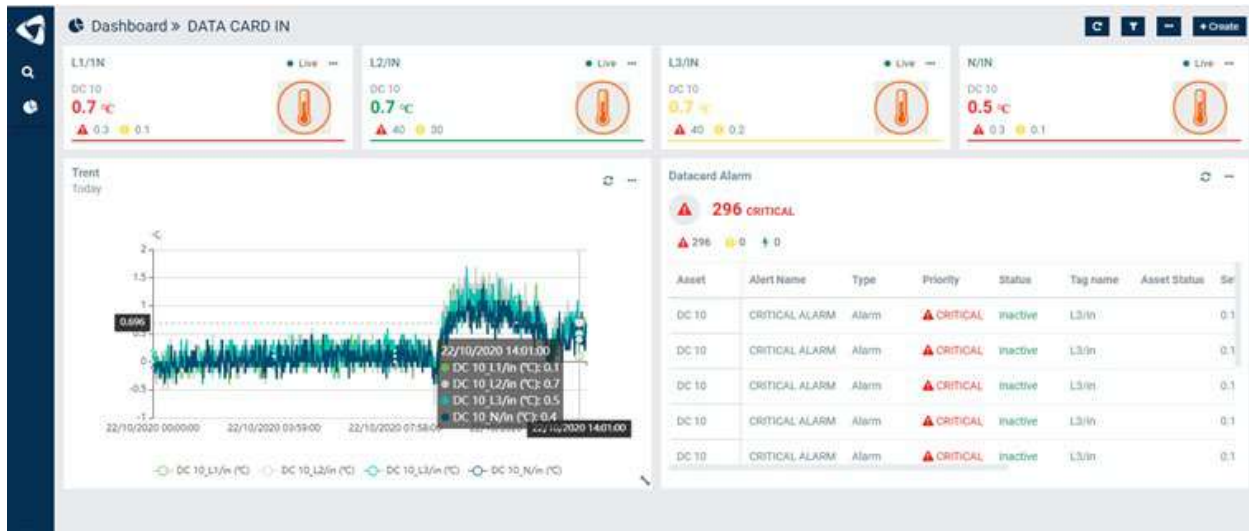
You can configure a maximum safe limit for those critical points too.

So, when you see a thermal reading crossing this threshold limit on your mobile devices, you know that something is wrong.

Real-time analytics



Helps analysis of your data as soon as that data becomes available in your system gives deeper insights that enable your businesses to react without delay.



Remote Device Management



Device management is critical to your businesses for establishing and maintaining the health, connectivity, and security of the assets.

Highly Scalable with the capability to communicate with **IoT** Sensors, devices and Gateways for data acquisition, data storage, data lifecycle management, and data summarization.



Datacard Alarm

307 CRITICAL

307 0 0

Asset	Alert Name	Type	Priority	Status	Tag name	Asset Status	Set Value
DC 10	CRITICAL ALARM	Alarm	CRITICAL	Active	L3/Out		0.3
DC 10	CRITICAL ALARM	Alarm	CRITICAL	Inactive	L3/Out		0.3
DC 10	CRITICAL ALARM	Alarm	CRITICAL	Inactive	L3/Out		0.3
DC 10	CRITICAL ALARM	Alarm	CRITICAL	Active	L1/in		0.1
DC 10	CRITICAL ALARM	Alarm	CRITICAL	Active	L1/Out		0.2



Always alerted, to reduce downtime
Instant notifications to keep you warned.

Now, you will be notified immediately through push notification or via SMS/Email on your mobile devices, whenever the temperature exceeds the threshold limits, suggesting an abnormality.



High Service Reliability

Known for its level of quality over time and perform with an acceptable degree of compliance.



High Availability

Intelligent fail-over mechanism, 99.9 % up time.

Predict smartly



Analytics to help you detect faults very early.

VizionEye™ is an invaluable tool that detects the anomalies, triggers receiving warnings or other high priority messages in near real-time.

Easily visualize & analyze the thermal pattern of your switchgears.

- Analyze the average temperature & load of multiple points, across a chosen time period.
- Analyze the thermal behavior of an individual asset.
- Compare the thermal trends of multiple assets.

Where does this solution fit?



VizionEye™ can be used in monitoring

- Critical Low Voltage & Medium Voltage electrical busbar & cable terminations.
- Low Voltage & Medium Voltage Transformer.
- Uninterruptable Power Supply.
- Power Distribution Unit.

Typical sectors would include

- Datacenter facilities.
- Oil & petroleum industry.
- Factories.
- Metro.
- Solar & Wind Farm.
- Airport.
- Infrastructure.

Energy monitoring and targeting



“You cannot manage what you cannot measure”. M&T is an energy efficiency technique that uses energy information as a basis to eliminate waste. **VizionEye™** ELNet energy monitoring helps identify and explain excessive energy use and detect instances when consumption is higher or lower.

SLD



Inbuilt SLD feature in **VizionEye™** helps in depicting the electrical distribution system by a graphic representation.

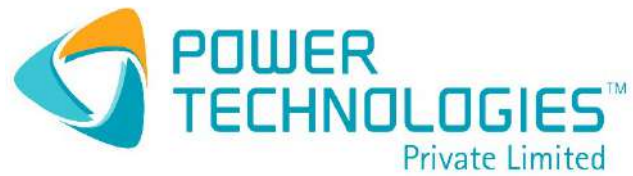
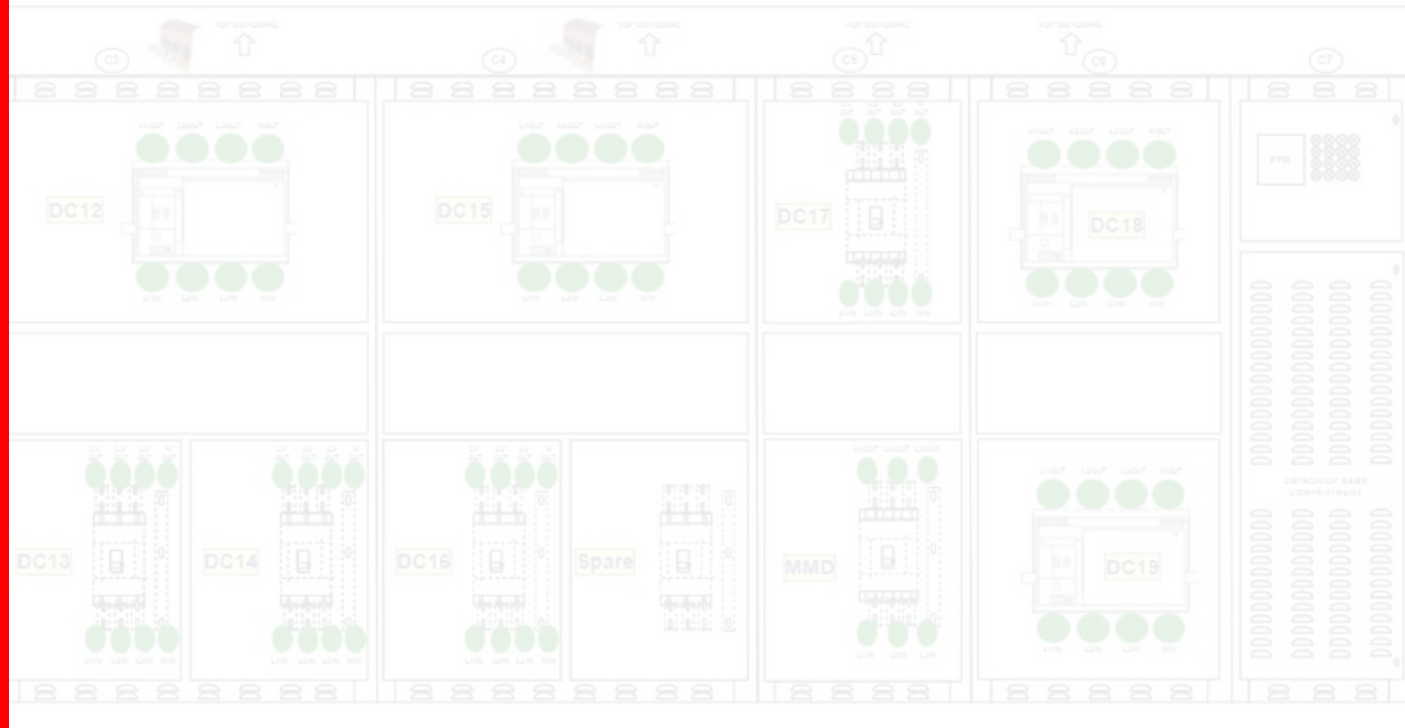
Reporting



The report is **CRUCIAL DATA WHEN YOU NEED IT**, it is vital to any business, it is an extremely effective tool which gives deeper insights in energy utilization and helps identify areas of energy wastage and highlight potential energy-saving opportunities.

VizionEye™ Reporting system caters to a wide range of industries.

VizionEye™



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