



# Protect uptime and business continuity

BlokSeT Thermal Monitoring

Life Is On



## Bolster IR inspections with 24/7 thermal monitoring

How much does an hour of downtime cost? At a stock exchange, lost transactions total €6 million. A petrochemical plant will forfeit €100,000 in productivity. And for hospitals, the cost is human lives.<sup>1</sup>

Given such risks, keeping critical equipment up and running is a priority in buildings and facilities worldwide. The objectives are three-fold:

- **Maintain** operational uptime and business continuity
- **Reduce** operational expenses and total cost of ownership
- **Protect** building occupants and electrical distribution equipment

While infrared (IR) thermography inspections are an effective way to identify faulty or loose connections in electrical distribution systems, they cannot detect critical conditions that arise between scheduled scans or alert you to temperatures that rise in areas that are inaccessible by thermography technology. BlokSeT wireless thermal monitoring enhances existing condition-based maintenance programs by providing 24/7 thermal-risk detection and sending alerts when temperature data is outside pre-determined limits.

## Minimize downtime, increase safety

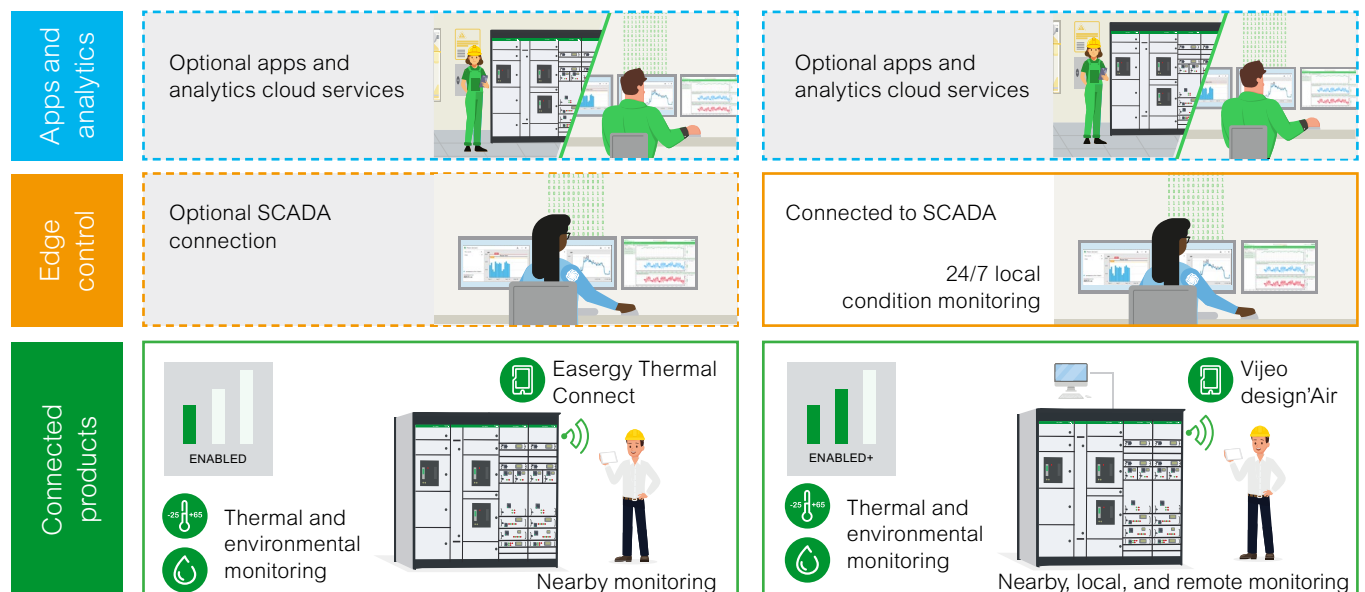
The BlokSeT Thermal Monitoring design combines a robust and proven architecture, standardized modules, and Schneider Electric devices. Permanently installed sensors on busbar connections, cable compartments, and breaker contacts provide continuous monitoring to perform predictive maintenance. While IR inspections may miss critical conditions that happen between scheduled scans, BlokSeT Thermal Monitoring not only detects potential hazards but immediately sends alerts to operations and maintenance teams, allowing them to respond before any unsafe or damaging conditions occur. BlokSeT thermal monitoring minimizes downtime and increases safety while reducing insurance premiums related to fire risks.

## Deploy locally or remotely – it's your choice!

Incorporated into the EcoStruxure Power platform, BlokSeT thermal monitoring provides scalable connectivity, with your choice of local or remote monitoring:

- **BlokSeT thermal monitoring Enabled:** allows nearby thermal and environmental monitoring of LV switchboards, allowing inspection from within a few meters with a smart phone or Android tablet.
- **BlokSeT thermal monitoring Enabled Plus:** allows nearby, local connection via an HMI touchscreen display on the switchboard or an IOS/Android tablet with optional SMS notification, and remote monitoring via Schneider Electric edge control or other SCADA-compatible solution.
- **EcoStruxure Asset Advisor offers:** cloud-based digital services for your critical equipment, evaluating live data from your connected assets and applying advanced analytics to identify potential threats. Our experts provide web-actionable dashboards, timeline reports, and recommendations, with optional on-site support.

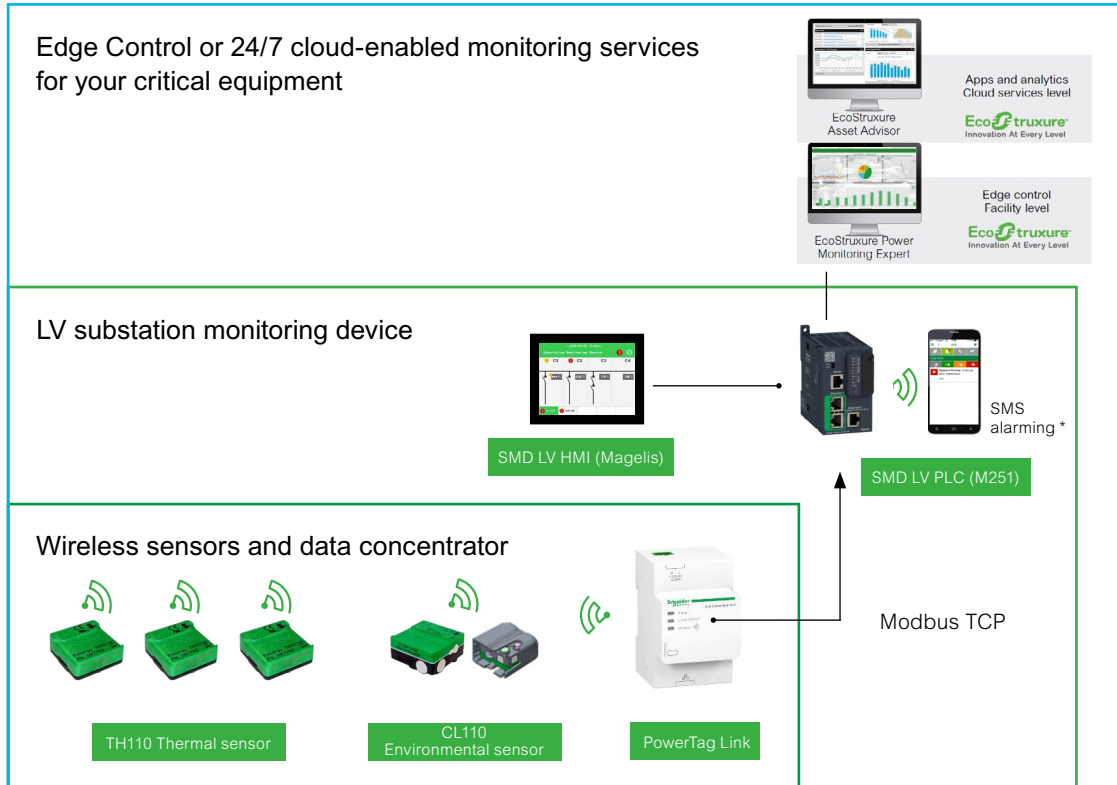
## BlokSeT Thermal Monitoring with Scalable Connectivity



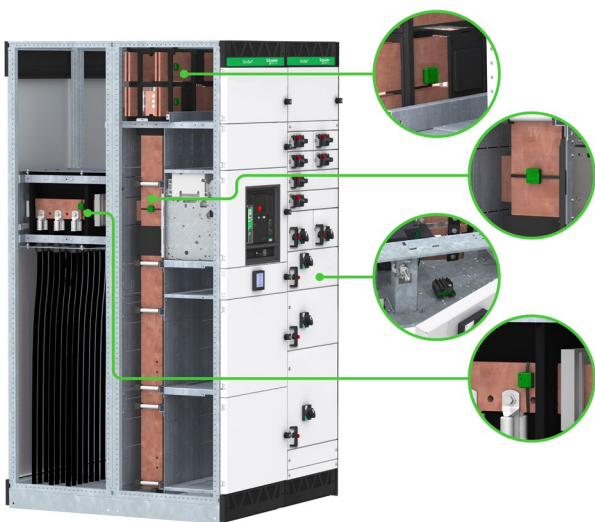
## Perform the right tasks at the right time

As part of the EcoStruxure Power architecture, Blok**SeT** Thermal Monitoring solution form a complete, facility-wide thermal and environmental monitoring network. Using wireless data concentrators and other communication interfaces, thermal data is uploaded automatically and continuously to local and cloud-based analytic applications.

### Communication architecture



When deployed with Schneider Electric apps, Blok**SeT** Thermal Monitoring provides long-term trending data to help facility managers detect gradual deterioration so they can address issues well before they cause a problem. And Schneider Electric experts provide analytic and advisory services, and can oversee multiple facilities from a central operations center. Predictive, condition-based maintenance can be scheduled, ensuring the right work is performed in the right place and time, and that a facility's maintenance spend is optimized.



Blok**SeT** Thermal Monitoring monitors temperature and environment at critical points, including:

- Main busbars (fishplates)
- Busbar customer connections (incomer zone)
- Power circuit breaker busbar connections
- Inside drawers (Ambient T° and humidity)

## BlokSeT Switchboard Solutions

BlokSeT switchboards are complete and customized low-voltage (LV) solutions for power distribution and motor control. With industry-leading design and safety features, BlokSeT solutions answer the need for superior operational safety in today's high-performance LV power applications. Versatile and durable, they have the comprehensive capabilities and intelligence you need to keep your business competitive.

For complete installation details, please consult BlokSeT's Installation Guide..

Schneider Electric Partner



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