



# Driving Innovation in Data Centers

Preventing Electrical Equipment Failures  
in Data Centers with Predictive Maintenance



# Embracing Digital Transformation

## Digital Shift:

With the ever-evolving standard requirements by regulatory institutions such as the NFPA, businesses are increasingly digitizing and streamlining operations to maximize efficiency.

## Predictive Maintenance:

A proactive approach using condition monitoring technology to predict and prevent equipment anomalies in advance of failures.

## Industry Revolution:

The partnership between P&V Panels and Exertherm is leading the way with continuous thermal monitoring (CTM) transforming how industries maintain critical electrical assets.

## Mission and Innovation

Our strategic partnership aims to make predictive maintenance a standard practice, significantly boosting operational efficiency, cutting costs, and enhancing safety standards. Together, we've led the way by integrating Exertherm's IR sensors into P&V Panels' electrical control switchboards for one of the largest data centers.

*P&V Panels, based in Heusden-Zolder, Belgium, specializes in designing and manufacturing control panels, power distribution boards, and electrical solutions for various industrial sectors. As a long-term partner of Exertherm, P&V Panels has been committed to integrating advanced CTM technologies to meet the evolving needs of their clients.*



Image Source: P&V Panels

## Their Challenge

P&V Panels' client, one of the largest data centers, required a cutting-edge solution to enhance the safety and reliability of their control panels. The client had previously used other technologies but sought a more innovative and reliable hard-wired solution to prevent potential cybersecurity breaches and detect failures before they occurred. This proactive approach aimed to secure their operations and maintain their leadership position in the industry.

## Our Combined Solution

P&V Panels offered Exertherm's CTM technology as the ideal solution. Exertherm's IR sensors provide continuous thermal monitoring, detecting hotspots and preventing potential failures. After careful consideration, the hyperscaler implemented these sensors in their data centers across Europe.

# Our Results

## Hyperscaler

- Secured operations with reliable, fit-and-forget, zero-maintenance sensors.
- Enhanced safety for control panels.
- Reduced downtime and maintenance costs.
- Reinforced their position as industry innovators by adopting cutting-edge technology.

## P&V Panels

- Secured business by offering world-recognized technology.
- Strengthened their reputation and attracted interest from other customers in the data center industry.
- Benefited from prompt technical support, ensuring seamless integration and addressing any issues.

## Exertherm

- Provided innovative solutions globally.
- Reinforced its presence as a leading CTM provider.
- Benefited from increased market penetration and valuable feedback for future innovations.



Image Source: P&V Panels

*The widespread adoption of IoT sensors and connectivity solutions allows for real-time monitoring of equipment health and performance. Companies are increasingly adopting predictive maintenance to avoid costly unplanned downtime, improve asset reliability, and enhance overall operational performance. (source: Marketsandmarkets)*



## ADOPTION OF INDUSTRY 4.0 AND DIGITAL TRANSFORMATION INITIATIVES ACROSS INDUSTRIES TO DRIVE MARKET



10,627.6 USD Million  
2024

47,761.6 USD Million  
2029

CAGR of  
35.1%

The predictive maintenance market is projected to grow from USD 10,627.6 million in 2024 to USD 47,761.6 million by 2029, at a CAGR of 35.1% during the forecast period.

report by [Marketsandmarkets](#)

### Testimonial

"As a reputable panel builder, we take pride in advising our clients on the best technology available in the market. By offering best-in-class thermal monitoring sensors from Exertherm, we not only ensure the success of our projects but also reinforce our commitment to excellence. We look forward to integrating this solution into future proposals, fostering ongoing collaboration and shared success"

P&V Panels



## Need To Improve Electrical Resilience?

Discover the benefits of continuous thermal monitoring:

[Discover CTM Applications](#)

