



Thermal Sensors Optimize Electrical Power Resilience For Distribution Centers

POWER ON. PEACE OF MIND

Key benefits

1

Ensure uninterrupted operations, preventing costly downtime and maintaining supply chain efficiency.

2

Meet customer demands for on-time deliveries, enhancing customer satisfaction and loyalty.

3

Minimize loss during power disruptions to help safeguard valuable inventory and goods.

Continuous Thermal Monitoring (CTM) For Distribution Centers

Distribution centers must secure their power supply to avoid costly downtime, preserve perishable goods, meet customer delivery expectations, and maintain efficient operations in an increasingly competitive marketplace.



The Problem

Cost Management

Cost pressures in the competitive distribution industry mean even electrical maintenance practices can significantly influence the overall cost structure of the facility. For example, the cost of unplanned emergency repairs, risk of accidents and potential regulatory fines, replacement of costly electrical assets, insurance premiums, and operational continuity.

Loss of Productivity

Facilities often rely on high-energy requirement units and systems, including just-in-time inventory systems, automated equipment and HVAC systems. Power interruptions and outages can disrupt the operation of conveyor systems, automated storage and retrieval systems, leading to loss of productivity and inefficiency.

Safety Risk

Poor maintenance of electrical switchgear increases the risk of electrical fires. Distribution centers and warehouses often contain flammable materials, making fire safety a critical concern. It also endangers personnel and other assets of the facility.



The Solution

24x7 Thermal Monitoring

To increase safety and maximize operational uptime for electrical assets, organizations should install a continuous thermal monitoring (CTM) solution. Thermal monitoring sensors negate the need for routine manual thermographic inspections and enable a significantly more cost-effective maintenance cycle. With their typical lifespan of 5 years and poor line-of-sight challenges, it can also eradicate the use of IR windows.

Real-Time Data

CTM solutions continuously detect electrical hotspots, mitigating the risk of power outages occurring in critical electrical joints. The production of real-time data enables operators to track asset health and observe trends. The uniformity of data produced by Exertherm's permanently installed thermal monitoring sensors eliminates the inconsistency issues created through the use of different IR camera brands, incorrect calibration, and the individual technician's interpretation.

Cost Saving

The evolution from periodic inspection to predictive maintenance continues to deliver numerous benefits for organizations. As well as transformational data and cost savings for a sustainability-conscious modern distribution center, an Exertherm CTM solution helps improve safety as well as delivering more reliable system uptime.



Need To Improve Electrical Resilience?

Discover the benefits of continuous thermal monitoring:

[Discover CTM Applications](#)

Benefits of CTM:



Reduce the likelihood of electrical failures and improve operational stability with 24x7 monitoring.



Lower the need for additional costs and the unnecessary intrusion of unplanned maintenance.



Minimize human interaction with potentially faulty assets to increase personnel and on-site safety.

