



Reduce Downtime



Reduce Costs



Improve Safety

## ELECTRICAL SYSTEMS DISTRIBUTION INSPECTION

### RELIABILITY AND SAFETY ON THE ELECTRICAL NETWORK

#### THE CUSTOMER'S CHALLENGE

When electrical connections and components break down unexpectedly, it may result in unplanned downtime and production loss. Fires can occur from electrical short circuits or cable burning. That's why it's important to ensure that the electrical distribution system is in proper working order, including busbars, circuit breakers, fuses, and switchboards. The cost to repair damaged equipment is expensive, and revenue may be lost from the unplanned downtime. Electrical distribution boards are typically housed inside cabinet enclosures, making it difficult to inspect them for impending failures.

#### A SOLUTION

Thermal imaging can provide key information that the eyes alone cannot detect. A thermal imager, such as the FLIR ONE Pro or the FLIR T540, can help maintenance professionals spot overheating electrical connections and components before they fail. This provides the opportunity to solve electrical issues as part of planned maintenance before they cause a serious and costly problem. Once the problem area is identified, a FLIR VS70 or Exttech HDV640 borescope can provide a visual view of the affected area. A clamp meter or digital multimeter, such as the FLIR CM275 or FLIR DM93, can then be used to diagnose and repair the issue.

#### THE RESULTS

Through regular thermal inspections, maintenance professionals can quickly detect and locate temperature issues (hot spots) on electrical components and equipment. Loose connections, bad contacts, fuse issues, unbalanced loads, and stressed earth-leakage can be discovered using a thermal imager, providing the power to reduce the number of unexpected breakdowns by 90 percent. Improve safety by reducing risk of electrical fire; avoid unexpected breakdowns; reduce risk of unplanned electrical outages; and organize planned repairs and preventive maintenance.

For more information about FLIR in manufacturing or to schedule a product demonstration visit:

[www.flir.com/manufacturing/electrical-systems](http://www.flir.com/manufacturing/electrical-systems)

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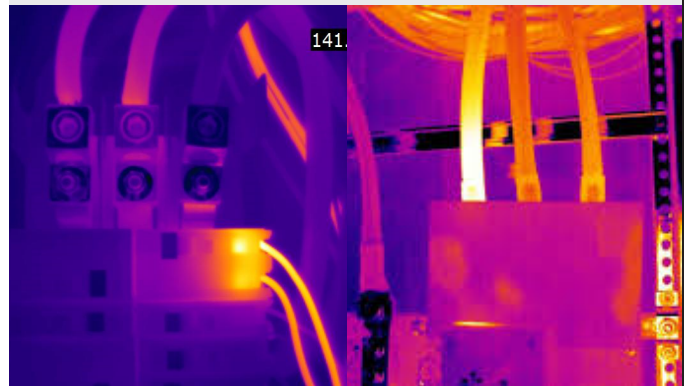
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*Catch problems early using a thermal imager to improve safety and reduce risk of electrical fire.*



*Electrical connections and components tend to overheat before they fail. Thermal imaging can help you detect problems early to organize planned repairs and preventive maintenance.*

