



THERMAL IMAGING INSPECTION

Electrical thermal imaging inspection also known as thermographic inspection is a non-invasive diagnostic technique used to identify potential issues and anomalies within electrical systems.

It involves using a thermal imaging camera to detect and visualise variations in temperature across electrical equipment, such as switchgear, circuit breakers, transformers and electrical connections.

What is included in our Thermal Imaging Inspection?

During an Thermal Imaging Inspection, the following checks will be completed:

- The engineer will capture and display thermal images of electrical equipment. These cameras detect infrared radiation emitted by objects and convert it into a visual representation of temperature differences.
- The thermal images obtained during the inspection are analysed to identify areas of abnormal temperature patterns. Areas of excessive heat can indicate potential issues such as loose connections, overloaded circuits, faulty components, or impending failures.
- A report of the findings of the inspection - including the thermal images, temperature measurements and recommendations for corrective actions.



How often should you carry out a Thermal Imaging Inspection?

The frequency of electrical thermal imaging depends on several factors including the type of equipment, its criticality and the environment in which it operates.

As a guideline, it is advised for it to be performed on a regular schedule, typically annually or bi-annually.

Electrical systems in an high risk environment eg industrial facilities or data centres may require more frequent testing, recommended quarterly to ensure integrity of the equipment.

For newly installed electrical systems or equipments, thermal imaging may be conducted shortly after installation to verify proper installation and identify any initial issues.

Some industries may have specific regulations, standards or codes of practice.

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