

THERMAL IMAGING SURVEYS



Many commercial and industrial enterprises demand a high degree of reliability and availability from their premises. Traditional forms of preventative maintenance are very limited in their effectiveness in identifying substandard electrical contact situations and thermal insulation deficiencies. In addition, preventative maintenance requires the isolation of electrical equipment, which is often inconvenient to processes and production. Infrared Thermography provides a means of condition monitoring live systems and detecting faults during the early stages of development through the generation of heat. Early fault detection provides the time required to plan and carry out the necessary repairs before catastrophic failure.

Thermal Imaging Surveys are carried out by Thermographers using high resolution infrared cameras which detect changes in temperature. The cameras produce thermal patterns shown in the images which are interpreted and commented on for the client. The onus would then be on the client to draw on these conclusions from a report and undertake any actions that they feel necessary.

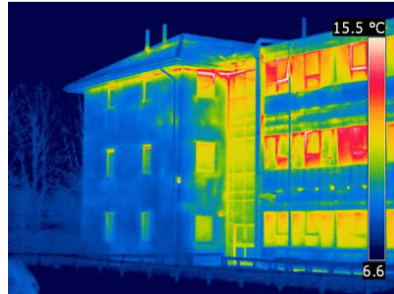
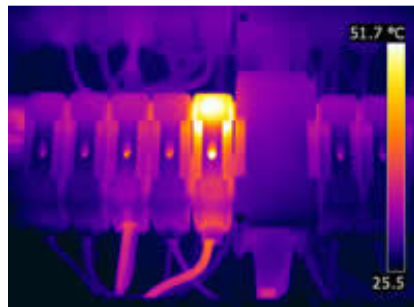


Image shows heat loss from old (right) part of the building with the new building (left) having much better levels of insulation.



Faults of fuse boards usually only come to light when they burn out or completely fail causing risk of fire or plant disruption.

The Thermal Imaging Survey can be applied to many aspects of building surveys :-

- Thermal Bridging
- Air Leakage
- Discontinuous Insulation
- Water Ingress
- Air Infiltration
- Structural Defects

Thermal Surveys are not just limited to buildings but can be utilised in many aspects of industry and construction:-

- Electrical Surveys - identify poor connections, overloaded circuits, failing components or imbalanced loads. Any faults on electrical systems are expensive in terms of plant downtime, damage, loss of production or risk from fire.
- Condition Monitoring – Pumps, motors and equipment bearings
- Pipework and Vessels – Thermal Insulation

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