# Thermography Report

| | |
|---|---|
| **Customer / Site** | |
| **Address** | |
| | |
| **Thermography Date** | |
| **Thermographer** | |
| **ModifiedDate** | |

**EXECUTIVE SUMMARY**

An Infrared Thermal Inspection was performed at the site noted on the preceding Title Page.

**PLANT INSPECTED**

All of the facilities examined during this visit are listed on the following pages.

**FOLLOW UP INSPECTION**

We would recommend further Infrared Thermal Inspections at twelve (12) monthly intervals. This will assist you with the effective maintenance and reduction of unscheduled outages and failure of your facilities.

We thank you for the opportunity to carry out the Infrared Thermal Inspection and look forward to a continued mutually beneficial association.

MELBOURNE
UNIVERSITY PRIVATE

This is to certify that

**Michael Reiken**

attended

**Infrared Thermography for Condition Monitoring**

**Level 1 Certification Program**

in Melbourne, 7 – 11 February 2005

Dr Alan Smith
Deputy Head
Department of Mechanical
and Manufacturing Engineering
University of Melbourne

**Fault Diagnosis - Criteria**

| Rating | ΔTemp | Recommendations |
|---|---|---|
| low | 0 to 10ºC | Possible deficiency and warrants further monitoring. |
| moderate | 10 to 20ºC | Indicates deficiency; repair as time permits. |
| high | 20 to 40ºC | Corrective measures required ASAP. |
| extreme | 40º and above | Corrective measures required immediately |

**REPORT GUIDELINES - GENERAL**

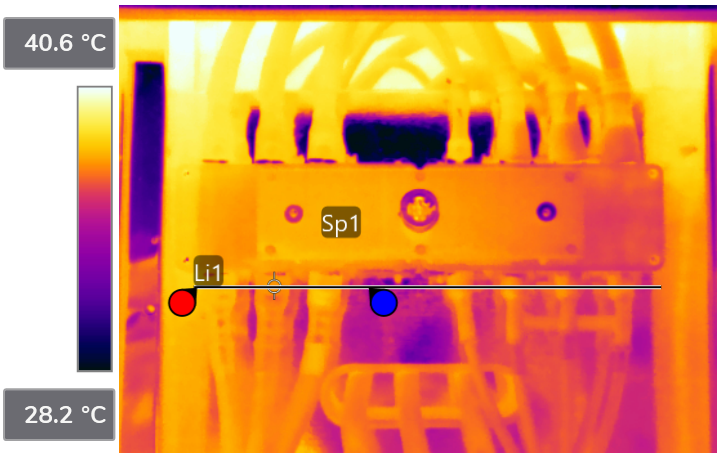
This report has been prepared in accordance with the "Guideline for Infrared Inspections of Electrical and Mechanical Systems" First Edition, Copyright 1993 Infraspection Institute Inc.
The subsequent delta T (temperature difference) criteria applied to evaluate the temperature severity of an exception, is the "Experienced-based" criteria for electrical and/or mechanical equipment.

This report is designed to caution against temperature anomalies and/or exceptions that may indicate the possible deterioration or failure of a component or system. It is not a guarantee against failure, nor is it a quantitative measure of deterioration or malfunction. This report serves only as an indication of an exception which may or may not lead to deterioration or failure. It is the responsibility of the contracted end user to resolve the diagnosis and determine any corrective measures, if required. Excel Power is not responsible for determining fault diagnosis or rectification procedures, and as such, it is recommended that all faults be investigated by qualified personnel of the end user.

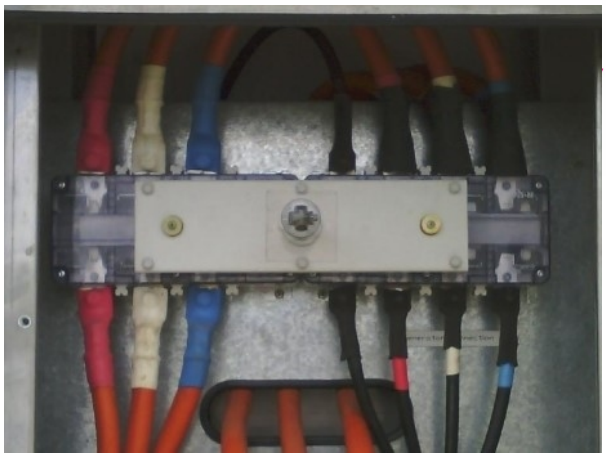
In no event shall Excel Power be liable to anyone for special, collateral, incidental or consequential damages in conjunction with or arising from the use of this survey

# Inspection Summary

| Image Date | Barcode | Location | Object ID | Page number | Fault Rating |
|---|---|---|---|---|---|
| | 00001229 | Main Switchboard | Changeover Switch | 5 | 1 Normal |
| | 00001229 | Main Switchboard | Distribution Section | 6 | 1 Normal |
| | 00001229 | Main Switchboard | DB1a | 7 | 1 Normal |
| | 00001233 | Coldroom outside | Distribution Board | 8 | 1 Normal |




FLIR0336.jpg

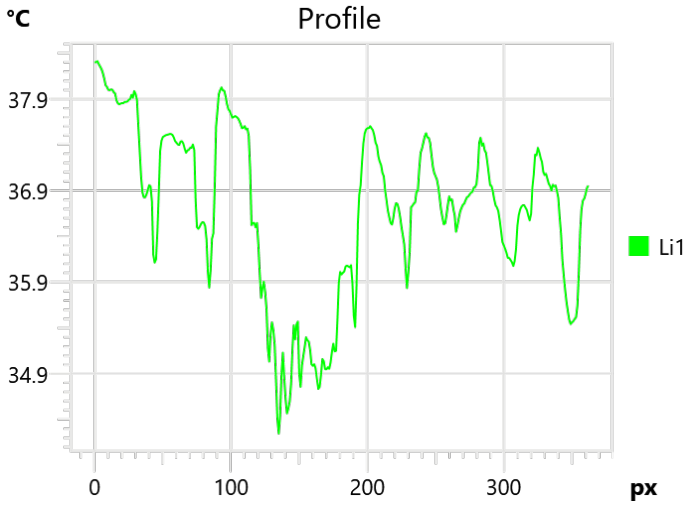


## File information

| | |
|---|---|
| Created | 17/01/2024 12:06:00 PM |
| Camera model | FLIR T540 |
| Camera serial | 79320250 |
| Lens | FOL18D |
| Emissivity | 0.98 |
| Atmospheric temp. | 24.0 °C |

## Measurements

| | |
|---|---|
| **Sp1** | 37.4 °C |
| **Li1** | |
| Max | 38.3 °C |
| Avg | 36.6 °C |
| Min | 34.2 °C |



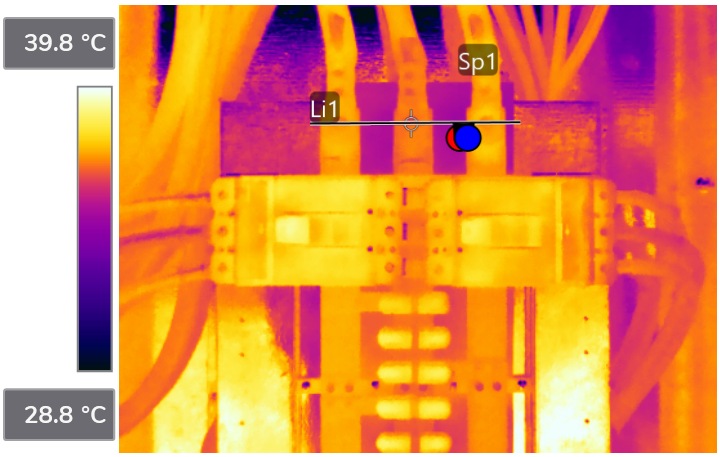

**Fault Rating**

**1 Normal**

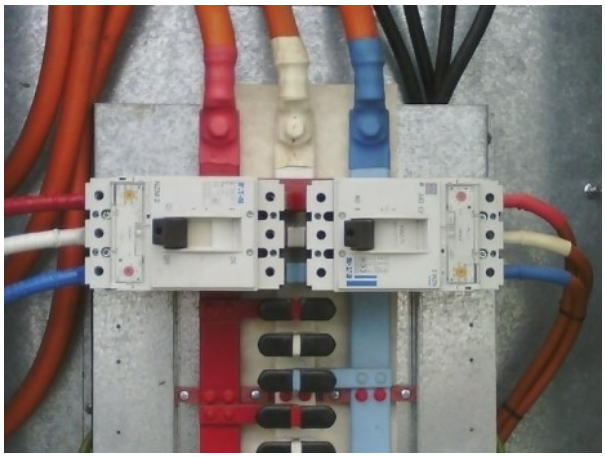
## Image Data

| | |
|---|---|
| Company | |
| Barcode | 00001229 |
| Location | Main Switchboard |
| Object ID | Changeover Switch |
| Fault Description | No thermal fault found |
| Remedy | Maintain regular thermal imaging inspections |
| Fault Rating | Normal |
| Thermographer | |

| **Corrective Action Performed:** | |
|---|---|
| **Work Performed** | **Repaired By:** |
| | **Date:** |




FLIR0337.jpg

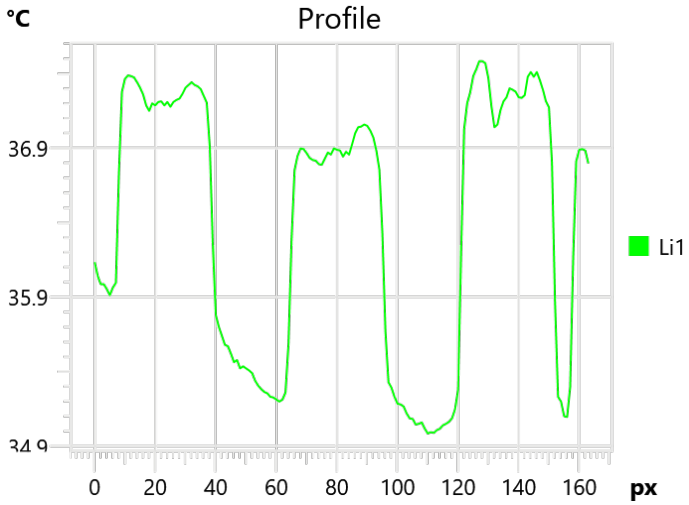


## File information

| | |
|---|---|
| Created | 17/01/2024 12:09:23 PM |
| Camera model | FLIR T540 |
| Camera serial | 79320250 |
| Lens | FOL18D |
| Emissivity | 0.98 |
| Atmospheric temp. | 24.0 °C |

## Measurements

| | |
|---|---|
| **Sp1** | 36.8 °C |
| **Li1** | |
| Max | 37.4 °C |
| Avg | 36.4 °C |
| Min | 34.9 °C |



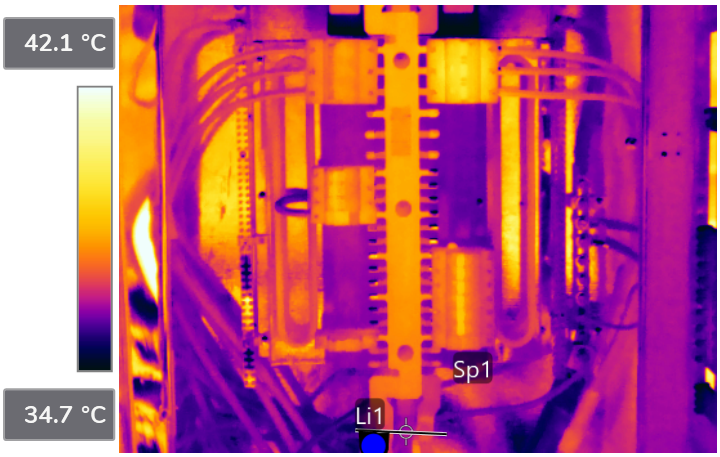

**Fault Rating**

**1 Normal**

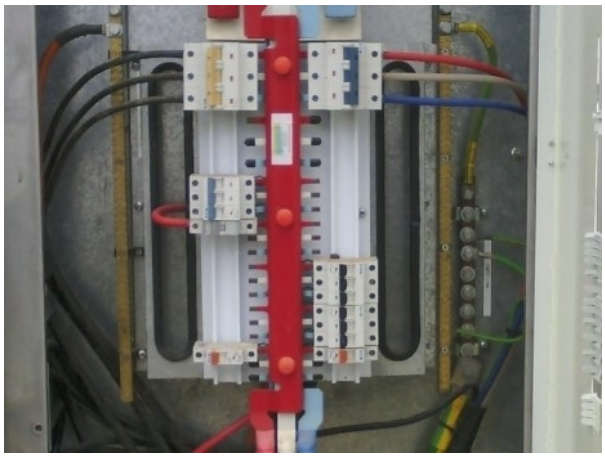
## Image Data

| | |
|---|---|
| Company | |
| Barcode | 00001229 |
| Location | Main Switchboard |
| Object ID | Distribution Section |
| Fault Description | No thermal fault found |
| Remedy | Maintain regular thermal imaging inspections |
| Fault Rating | Normal |
| Thermographer | |

| **Corrective Action Performed:** | |
|---|---|
| **Work Performed** | **Repaired By:** |
| | **Date:** |




FLIR0338.jpg

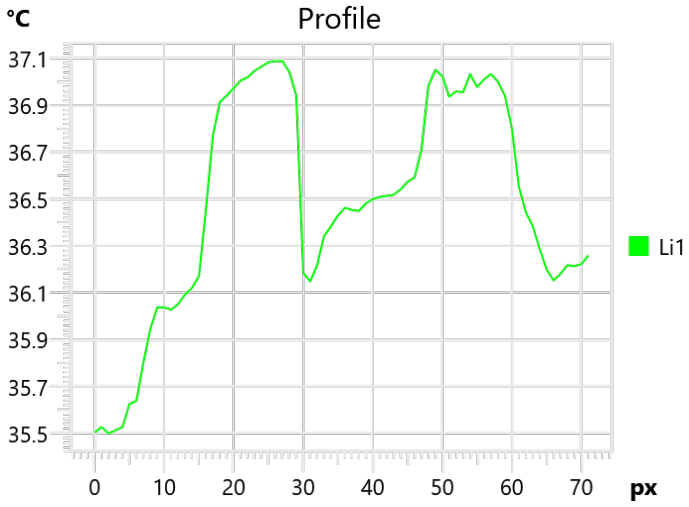


## File information

| | |
|---|---|
| Created | 17/01/2024 12:10:33 PM |
| Camera model | FLIR T540 |
| Camera serial | 79320250 |
| Lens | FOL18D |
| Emissivity | 0.98 |
| Atmospheric temp. | 24.0 °C |

## Measurements

| | |
|---|---|
| **Sp1** | 36.4 °C |
| **Li1** | |
| Max | 37.0 °C |
| Avg | 36.4 °C |
| Min | 35.4 °C |



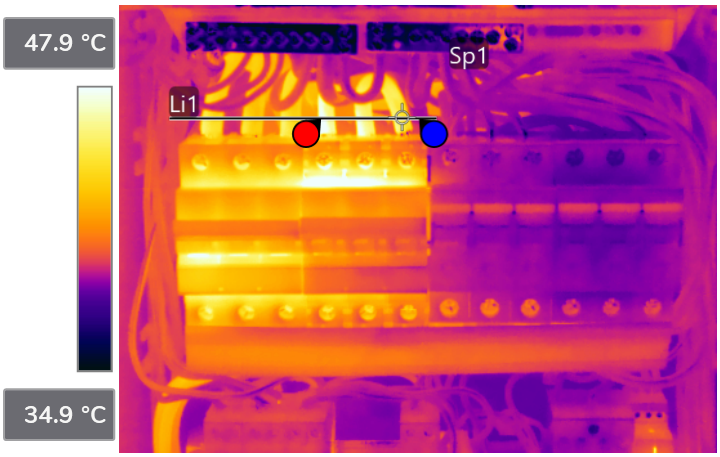

**Fault Rating**

**1 Normal**

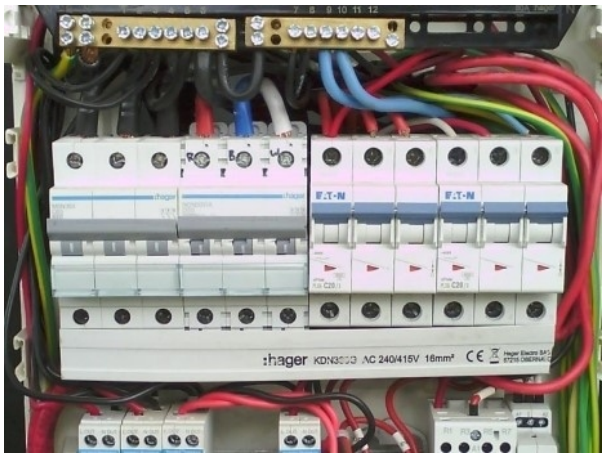
## Image Data

| | |
|---|---|
| Company | |
| Barcode | 00001229 |
| Location | Main Switchboard |
| Object ID | DB1a |
| Fault Description | No thermal fault found |
| Remedy | Maintain regular thermal imaging inspections |
| Fault Rating | Normal |
| Thermographer | |

| **Corrective Action Performed:** | |
|---|---|
| **Work Performed** | **Repaired By:** |
| | **Date:** |




FLIR0339.jpg



## File information

| | |
|---|---|
| Created | 17/01/2024 12:28:13 PM |
| Camera model | FLIR T540 |
| Camera serial | 79320250 |
| Lens | FOL18D |
| Emissivity | 0.98 |
| Atmospheric temp. | 24.0 °C |

## Measurements

| | |
|---|---|
| **Sp1** | 44.8 °C |
| **Li1** | |
| Max | 48.1 °C |
| Avg | 42.6 °C |
| Min | 39.3 °C |


**Fault Rating**

**1 Normal**

## Image Data

| | |
|---|---|
| Company | |
| Barcode | 00001233 |
| Location | Coldroom outside |
| Object ID | Distribution Board |
| Fault Description | No thermal fault found |
| Remedy | Maintain regular thermal imaging inspections |
| Fault Rating | Normal |
| Thermographer | |

| **Corrective Action Performed:** | |
|---|---|
| **Work Performed** | **Repaired By:** |
| | **Date:** |