LIC: 69356

Thermography Report

Customer / Site	
Address	Harristown QLD 4350
Thermography Date	14/04/2024
Thermographer	
Modified Date	14/04/2025

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	Temp Range	Recommendations
1 Normal	0 - 5	Maintain thermal imaging
2 Low	5 - 10	Possible deficiency and warrants futher monitoring
3 Moderate	10 - 20	Indicates deficiency, repair as time permits
4 High	20 - 40	Corrective measures required ASAP
5 Extreme	40 +	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.

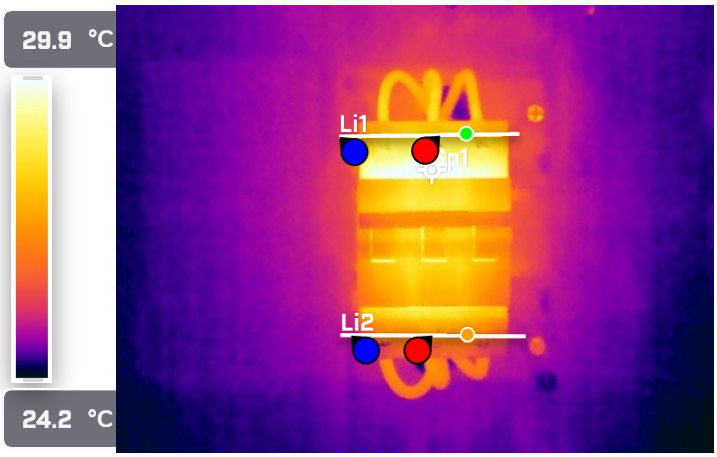
This report is designed to caution against temperature anomalies and/or exceptions that may indicate the possible deterioration or failure of a component or system. It is not a guarantee against failure, nor is it a quantitative measure of deterioration or malfunction. This report serves only as an indication 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

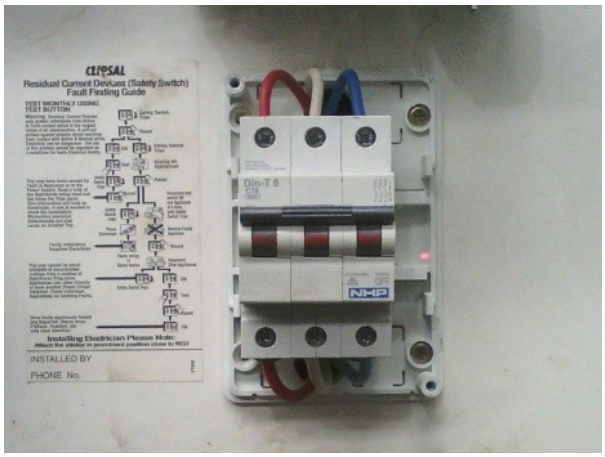
Inspection Summary

Contractor Licence No: 69356 Electrical Licence No: C15868

Image Date	Barcode	Location	Object ID	Page number	Fault Rating
14/04/2025 2:44:52 PM	00001839	Main Switchboard	10 amp Inverter Right	5	1 Normal
14/04/2025 2:47:51 PM	00001839	Main Switchboard	DB1	6	1 Normal
14/04/2025 2:49:24 PM	00001839	Main Switchboard	Main switch 80 amps	7	1 Normal
14/04/2025 2:50:50 PM	00001839	Main Switchboard	Metering Section	8	1 Normal
14/04/2025 2:58:43 PM	00001838	DB1 front shed	Circuit breakers	9	1 Normal

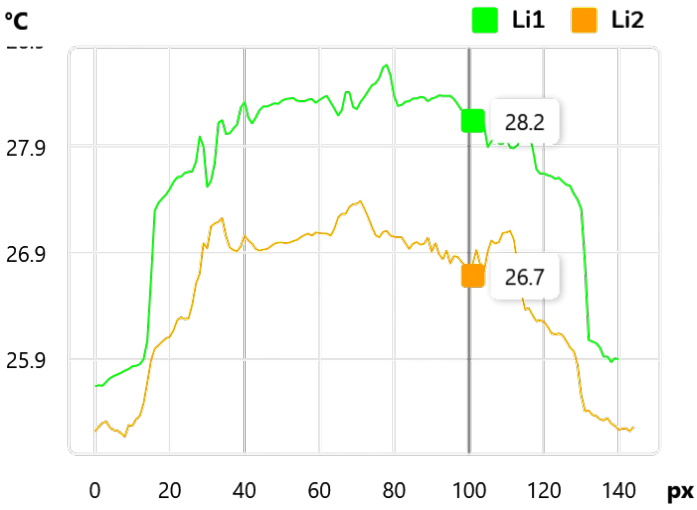


FLIR0395.jpg



File information

Created	14/04/2025 2:44:52 PM
Camera model	FLIR T540
Camera serial	79320250
Lens	FOL18D
Emissivity	0.98
Atmospheric temp.	28.0 °C



Measurements

Li1	
Max	28.6 °C
Avg	27.6 °C
Min	25.6 °C
Li2	
Max	27.3 °C
Avg	26.5 °C
Min	25.1 °C
Sp1	30.3 °C

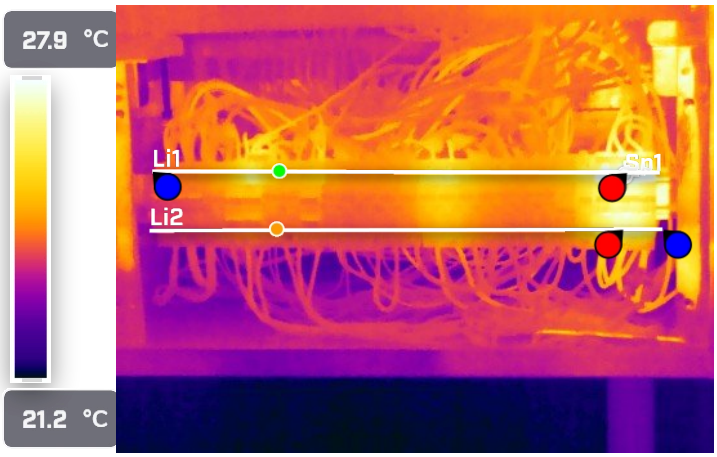
Fault Rating

1 Normal

Image Data

Company	
Barcode	00001839
Location	Main Switchboard
Object ID	10 amp Inverter Right
Fault Description	No fault found
Remedy	Maintain regular thermal Imaging
Fault Rating	Normal
Thermographer	Michael Reiken

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



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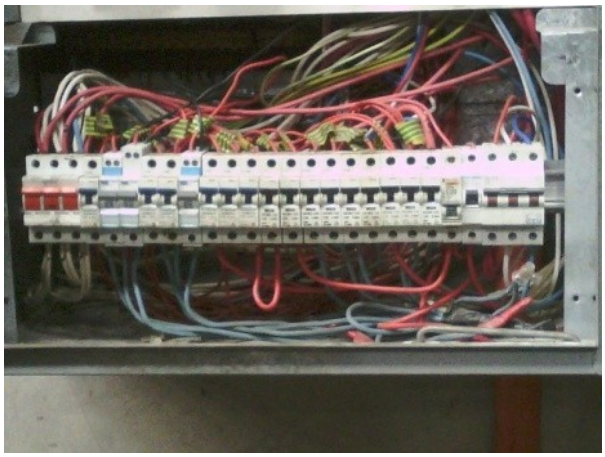
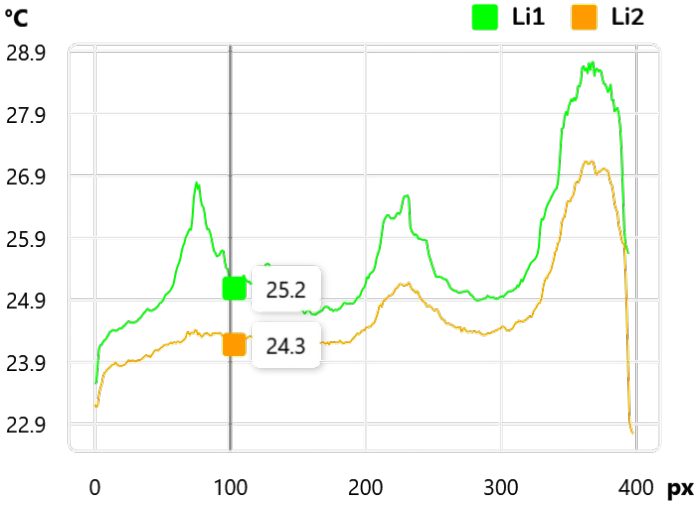


File information

Created	14/04/2025 2:47:51 PM
Camera model	FLIR T540
Camera serial	79320250
Lens	FOL18D
Emissivity	0.98
Atmospheric temp.	28.0 °C

Measurements

Li1	
Max	28.7 °C
Avg	25.6 °C
Min	23.5 °C
Li2	
Max	27.1 °C
Avg	24.6 °C
Min	22.7 °C
Sp1	29.3 °C



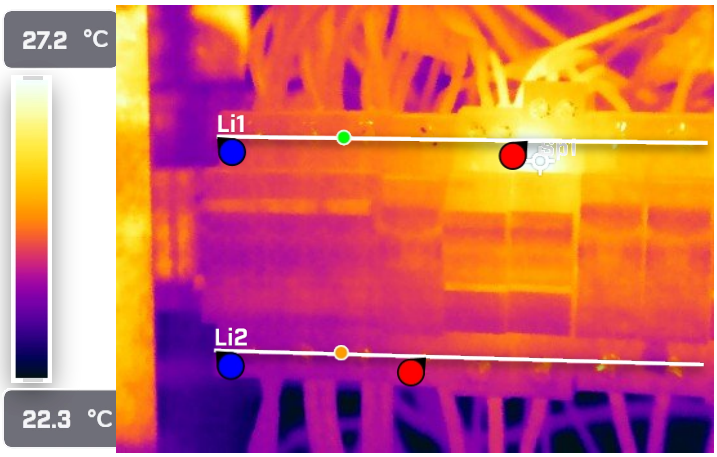
Fault Rating

1 Normal

Image Data

Company	
Barcode	00001839
Location	Main Switchboard
Object ID	DB1
Fault Description	No fault found
Remedy	Maintain regular thermal Imaging
Fault Rating	Normal
Thermographer	Michael Reiken

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



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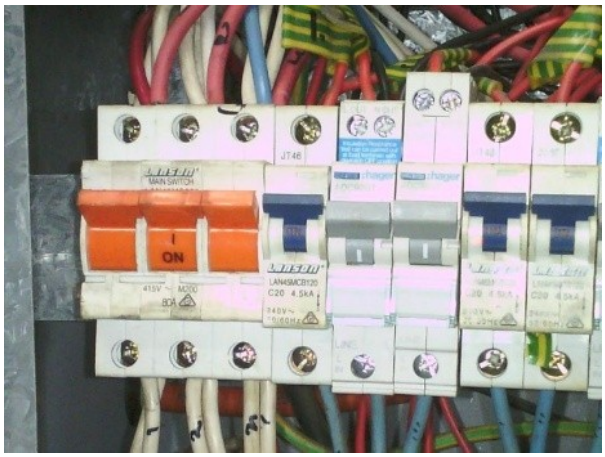

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Created	14/04/2025 2:49:24 PM
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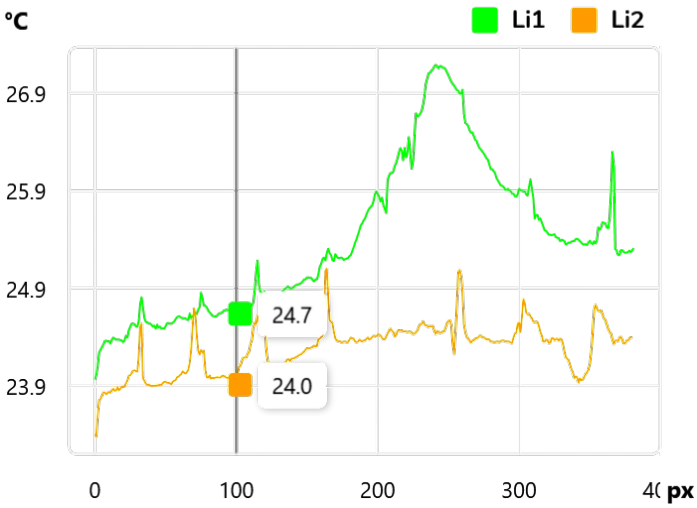
Camera serial	79320250
Lens	FOL18D
Emissivity	0.98
Atmospheric temp.	28.0 °C



Measurements

Li1	
Max	27.1 °C
Avg	25.3 °C
Min	23.9 °C
Li2	
Max	25.1 °C
Avg	24.2 °C
Min	23.3 °C
Sp1	27.3 °C

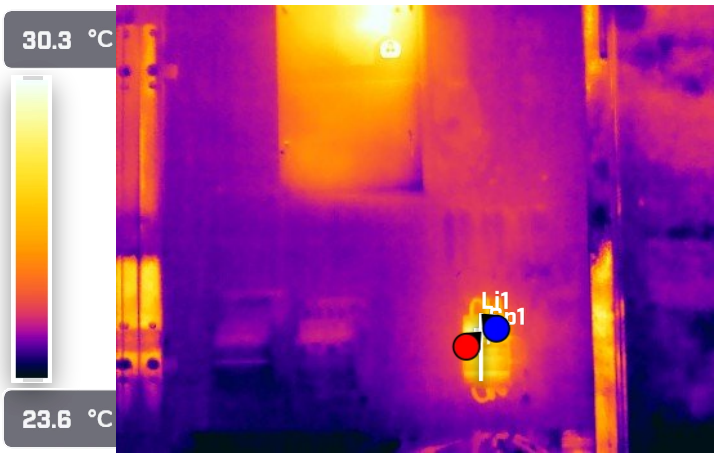
Fault Rating

1 Normal

Image Data

Company	
Barcode	00001839
Location	Main Switchboard
Object ID	Main switch 80 amps
Fault Description	No fault found
Remedy	Maintain regular thermal Imaging
Fault Rating	Normal
Thermographer	Michael Reiken

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



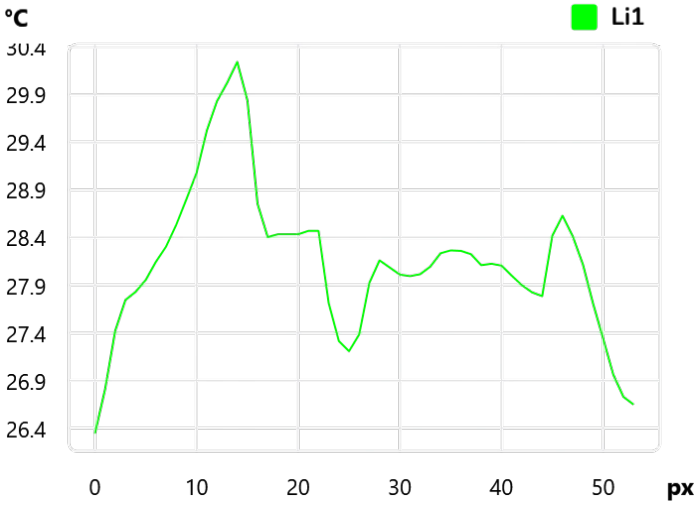
FLIR0398.jpg

File information

Created	14/04/2025 2:50:50 PM
Camera model	FLIR T540
Camera serial	79320250
Lens	FOL18D
Emissivity	0.98
Atmospheric temp.	28.0 °C

Measurements

Li1	
Max	30.2 °C
Avg	28.1 °C
Min	26.3 °C
Sp1	29.9 °C



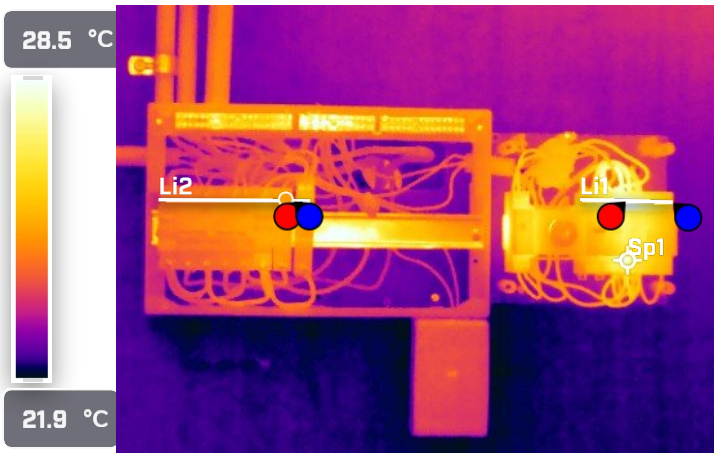
Fault Rating

1 Normal

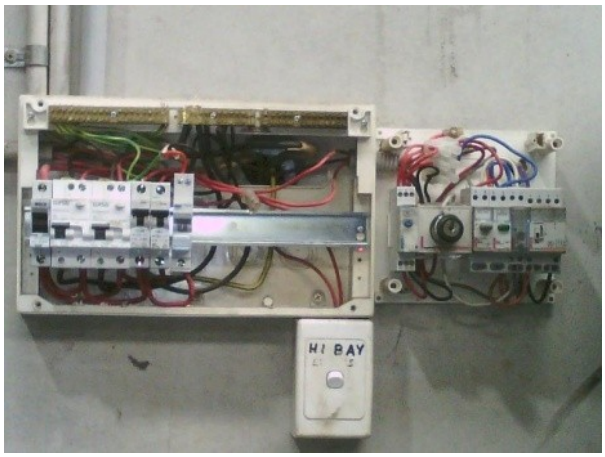
Image Data

Company	
Barcode	00001839
Location	Main Switchboard
Object ID	Metering Section
Fault Description	No fault found
Remedy	Maintain regular thermal Imaging
Fault Rating	Normal
Thermographer	Michael Reiken

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

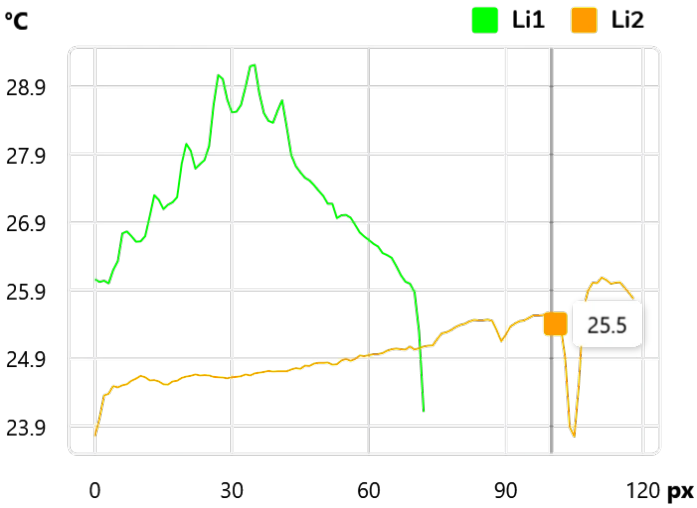


FLIR0399.jpg



File information

Created	14/04/2025 2:58:43 PM
Camera model	FLIR T540
Camera serial	79320250
Lens	FOL18D
Emissivity	0.98
Atmospheric temp.	28.0 °C



Measurements

Li1	
Max	29.2 °C
Avg	27.2 °C
Min	24.1 °C
Li2	
Max	26.0 °C
Avg	24.9 °C
Min	23.7 °C
Sp1	28.0 °C

Fault Rating

1 Normal

Image Data

Company	
Barcode	00001838
Location	DB1 front shed
Object ID	Circuit breakers
Fault Description	No fault found
Remedy	Maintain regular thermal Imaging
Fault Rating	Normal
Thermographer	Michael Reiken

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