Sample inspection

Sample report: made from the synthetic sample images that come with Thermal Report, not from a real inspection.

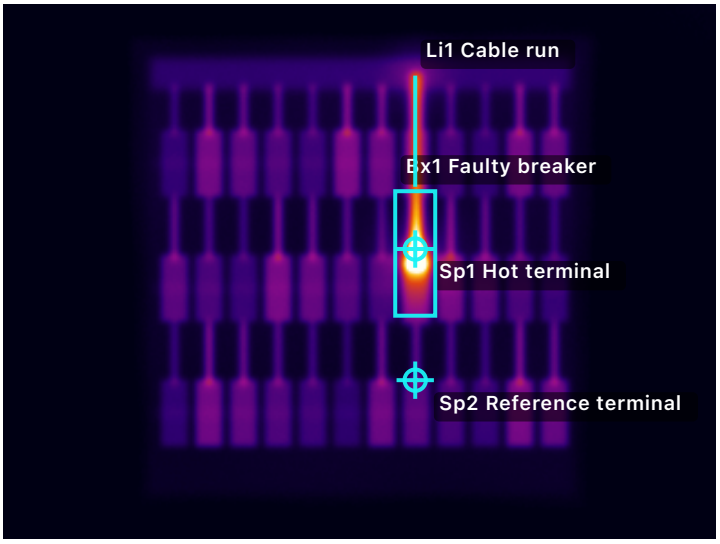
Client:	—	**Inspector:**	—
Site / Location:	—	**Temperature Unit:**	Celsius (°C)
Weather / Conditions:	Clear sky, wind < 8 km/h, ambient 20.0 °C, RH 50%		

Inspection Summary (4)

#	Image Title	Calibration	Min (°C)	Max (°C)	ΔT (°C)	Severity
1	Sample: Electrical panel	Sample	21.8	79.1	+40.6 °C	Urgent Action
2	Sample: Window heat loss	Sample	6.5	20.8	-12.9 °C	Repair Recommended
3	Sample: Radiator	Sample	20.3	67.4	+24.6 °C	Monitor
4	Sample: Solar panel	Sample	13.8	66.4	+36.2 °C	Repair Recommended

Section 1: Sample: Electrical panel

Severity: Urgent Action | Sample image



Parameters: Emissivity 0.95 | Reflected 22.0 °C | Atmospheric 22.0 °C | Distance 1.5 m | RH 45% | Palette: Iron

Measurements

Label	Type	Min (°C)	Max (°C)	Avg (°C)	Coldest (x,y)	Hottest (x,y)
Sp1 Hot terminal	Spot	79.1	79.1	79.1	(185, 110)	(185, 110)
Sp2 Reference terminal	Spot	38.5	38.5	38.5	(185, 169)	(185, 169)
Bx1 Faulty breaker	Rectangle Box	26.9	79.1	42.2	(176, 90)	(185, 110)
Li1 Cable run	Line Profile	46.9	50.6	48.4	(185, 52)	(185, 82)

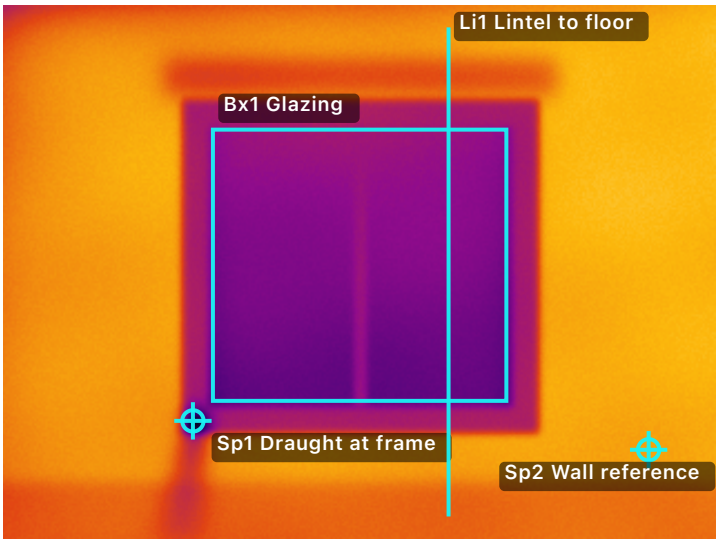
Delta Comparison (Max Temp): Sp1 Hot terminal vs Sp2 Reference terminal = +40.63 °C

Inspector Finding & Recommendations

Sample finding: the top terminal of breaker 8 in row 2 is about 40 °C hotter than the same terminal on similar breakers, which points to a loose or corroded connection. Have an electrician check and retighten it.

Section 2: Sample: Window heat loss

Severity: Repair Recommended | Sample image



Parameters: Emissivity 0.93 | Reflected 20.0 °C | Atmospheric 20.0 °C | Distance 3.0 m | RH 50% | Palette: Iron

Measurements

Label	Type	Min (°C)	Max (°C)	Avg (°C)	Coldest (x,y)	Hottest (x,y)
Sp1 Draught at frame	Spot	7.0	7.0	7.0	(85, 187)	(85, 187)
Sp2 Wall reference	Spot	19.9	19.9	19.9	(290, 200)	(290, 200)
Bx1 Glazing	Rectangle Box	10.5	14.2	12.5	(95, 174)	(155, 56)
Li1 Lintel to floor	Line Profile	11.3	19.9	14.7	(200, 173)	(200, 199)

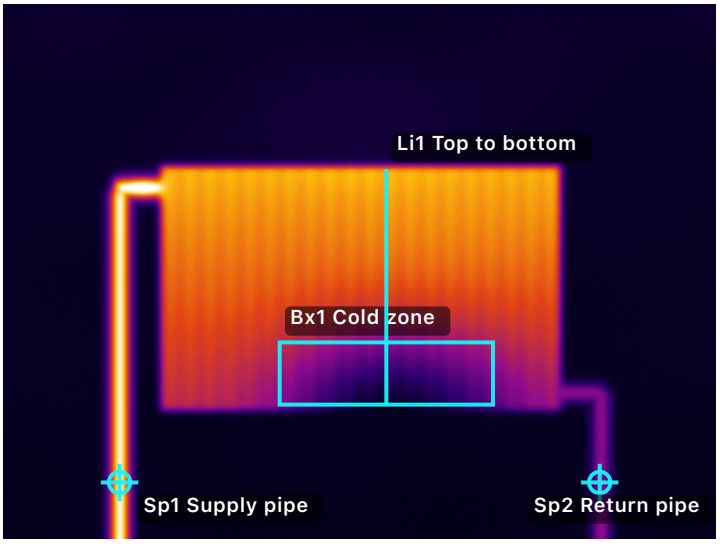
Delta Comparison (Max Temp): Sp1 Draught at frame vs Sp2 Wall reference = -12.90 °C

Inspector Finding & Recommendations

Sample finding: cold air enters at the lower left corner of the window frame and runs down the wall. The lintel above the window is a thermal bridge. Reseal the frame joint.

Section 3: Sample: Radiator

Severity: Monitor | Sample image



Parameters: Emissivity 0.95 | Reflected 20.5 °C | Atmospheric 20.5 °C | Distance 2.0 m | RH 45% | Palette: Iron

Measurements

Label	Type	Min (°C)	Max (°C)	Avg (°C)	Coldest (x,y)	Hottest (x,y)
Sp1 Supply pipe	Spot	61.5	61.5	61.5	(52, 215)	(52, 215)
Sp2 Return pipe	Spot	36.9	36.9	36.9	(268, 215)	(268, 215)
Bx1 Cold zone	Rectangle Box	21.3	43.2	32.1	(168, 180)	(127, 152)
Li1 Top to bottom	Line Profile	22.0	55.7	43.8	(172, 180)	(172, 78)

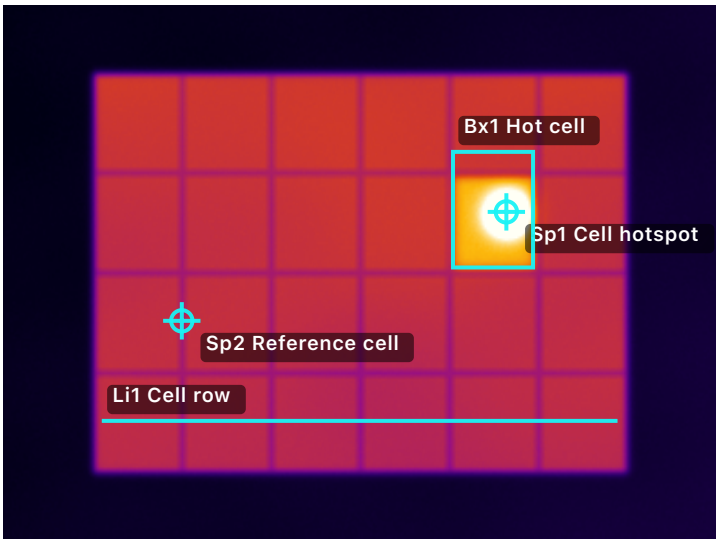
Delta Comparison (Max Temp): Sp1 Supply pipe vs Sp2 Return pipe = +24.57 °C

Inspector Finding & Recommendations

Sample finding: the lower middle of the radiator is about 20 °C colder than the top, a typical sign of sludge. Flush the radiator, then vent and balance the heating system.

Section 4: Sample: Solar panel

Severity: Repair Recommended | Sample image



Parameters: Emissivity 0.90 | Reflected 10.0 °C | Atmospheric 15.0 °C | Distance 8.0 m | RH 60% | Palette: Iron

Measurements

Label	Type	Min (°C)	Max (°C)	Avg (°C)	Coldest (x,y)	Hottest (x,y)
Sp1 Cell hotspot	Spot	66.4	66.4	66.4	(226, 93)	(226, 93)
Sp2 Reference cell	Spot	30.2	30.2	30.2	(80, 142)	(80, 142)
Bx1 Hot cell	Rectangle Box	31.5	66.4	43.1	(238, 75)	(226, 93)
Li1 Cell row	Line Profile	28.9	32.9	32.1	(160, 187)	(51, 187)

Delta Comparison (Max Temp): Sp1 Cell hotspot vs Sp2 Reference cell = +36.15 °C

Inspector Finding & Recommendations

Sample finding: one cell is much hotter than the cells around it (hotspot), which points to a cracked or shaded cell. Check the module and compare with the inverter data.