



PanelGuard Industrial Electrical Panel Inspection Checklist - UK Industrial Guide

A polished, print-friendly inspection record for UK industrial electrical panels, designed for practical site use and clean corrective-action tracking.

Site		Area / line	
Panel ID		Equipment served	
Voltage / supply		Inspector	
Date		Shift / permit ref	
Asset owner / department		Risk assessment / job ref	

Status	Use when	Typical response
Pass	Condition appears acceptable within inspection scope.	Record evidence if useful. No action required unless site standard says otherwise.
Advisory	Degradation, missing information or trend to monitor.	Raise planned action, owner and due date.
Fail	Unsafe, damaged, exposed, uncontrolled or materially defective condition.	Escalate, apply controls and record corrective action before close-out.
N/A	Item is not present or not applicable to this panel/site.	Add a short note where absence may matter for future reviews.

Inspection note

Tick one status per check. Add brief notes and evidence references, including photo IDs, thermal image references, work order IDs or drawing references where useful.

Disclaimer

Inspection scope depends on competence, risk assessment and safe systems of work. This checklist supports visual inspection and action tracking; it does not replace EICR/testing, safe-isolation procedures, statutory duties or a legal compliance assessment.

Inspection Checklist - Categories 1 to 3

Use Pass, Advisory, Fail or N/A for each line. Record concise notes and evidence references in the right-hand column.

1. Identification and documentation					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Panel identification, asset tag and location reference are present, legible and match site records.					
Electrical drawings, schedules and single-line information are available, current and linked to the panel.					
Warning labels, supply labels and isolation references are present and readable.					
Previous inspection defects, reports or actions have been reviewed before starting this inspection.					
2. Access and environment					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Panel access is clear, unobstructed and suitable for safe work by authorised personnel.					
Working area, escape routes and emergency access are not blocked by stock, tools or temporary works.					
Lighting, floor condition, housekeeping and local environment are suitable for inspection.					
Ambient heat, vibration, dust, chemical exposure or washdown risk is noted where relevant.					
3. Enclosure					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Doors, covers and escutcheons are secured, correctly fitted and free from unsafe damage.					
Locks, latches, hinges, handles and door stays operate correctly and do not expose live parts.					
Gaskets, seals and IP-rated features appear intact for the intended environment.					
Corrosion, dents, cracks, sharp edges or unauthorised modifications are recorded.					

Inspection Checklist - Categories 4 to 6

Use Pass, Advisory, Fail or N/A for each line. Record concise notes and evidence references in the right-hand column.

4. Cable entries and external wiring					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Cable glands, entry plates and stuffing glands are secure, correctly seated and free from obvious damage.					
External cables are supported, protected and not strained at the panel entry point.					
Unused holes, missing blanks or open knockouts are sealed to maintain enclosure protection.					
Trunking, conduit, flexible conduit and cable trays near the panel are intact and correctly fixed.					

5. Contamination, moisture and ingress					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Dust, oil, swarf, product residue or conductive contamination is not present at a harmful level.					
Water marks, condensation, leaks, pooling or tracking paths are absent or fully recorded.					
Insect, rodent or foreign-object evidence is checked and escalated where contamination risk exists.					
Filters, vents, drains, breathers and panel heaters appear present, clear and functioning where fitted.					

6. Overheating and thermal deterioration					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Discoloration, browning, brittle insulation, melted parts or heat marks are checked and recorded.					
Unusual smell, noise, visible arcing evidence or localised heat indicators are escalated immediately.					
Fans, vents, filters and cooling paths are checked for blockage, damage or failed operation.					
Thermal image, temperature reading or photo evidence reference is captured where risk assessment requires it.					

Inspection Checklist - Categories 7 to 9

Use Pass, Advisory, Fail or N/A for each line. Record concise notes and evidence references in the right-hand column.

7. Internal condition and components					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Components are secure on DIN rail, backplate or mounting hardware with no obvious movement or damage.					
Contactors, relays, drives, power supplies and terminals show no visible cracking, arcing or overheating.					
Internal labels, wire markers and device references are readable and match the available documentation.					
Temporary links, bypasses, unsupported additions or unapproved modifications are identified and recorded.					
8. Conductors, connections and terminations					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Conductors are routed neatly, supported and free from damaged insulation, crushing or abrasion.					
Terminations show no visible looseness, exposed copper, overheating, corrosion or incorrect landing.					
Ferrules, lugs, crimps and glands appear correctly fitted and appropriate for conductor type and size.					
Segregation, bend radius and separation from sharp edges or heat sources are visually acceptable.					
9. Protective devices, earthing and bonding					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Protective device ratings and identifiers appear consistent with drawings, labels and equipment served.					
MCBs, MCCBs, fuses, RCDs, RCBOs, SPDs and overloads show no visible damage or abnormal indication.					
Main earth, bonding conductors and protective earth links are present and visually intact.					
Blown fuses, tripped devices, missing blanks or bypassed protection are recorded and escalated.					

Inspection Checklist - Categories 10 to 12

Use Pass, Advisory, Fail or N/A for each line. Record concise notes and evidence references in the right-hand column.

10. Control, isolation and safety-related equipment					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Main isolator, local isolation points and labels are present, accessible and clearly associated with the panel.					
Interlocks, shrouds, barriers and guarding appear intact and have not been defeated or removed.					
Emergency stops, safety relays, guard circuits or safety indicators are checked within visual scope.					
Lock-off points, procedures, permits and safe isolation arrangements are available where required.					

11. Defects, evidence and priority					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Every defect has a clear description, location, category/item reference and evidence or photo reference.					
Priority is assigned consistently using site risk criteria and the potential consequence of failure.					
Immediate controls, isolation, barriers or escalation have been recorded for critical or high-priority defects.					
Recurring issues or linked defects across multiple panels are noted for trend review.					

12. Corrective actions					
Inspection check	Pass	Advisory	Fail	N/A	Notes / evidence reference
Each action has an accountable owner, target date and agreed route to completion.					
Parts, downtime, access, permits or specialist support requirements are identified.					
Status is tracked until completion, with closure notes and evidence reference recorded.					
Follow-up inspection, testing or review requirement is stated before the checklist is closed.					

Defects and Corrective Actions Register

Use this register to turn inspection findings into assigned, time-bound actions with evidence-led close-out.

Ref	Category / item	Defect and corrective action required	Priority	Owner	Target date	Parts required	Status	Completion evidence	Notes

Priority guide
Critical: immediate danger or loss of essential protection. High: action required urgently. Medium: planned corrective work. Low: monitor, tidy or document at next suitable opportunity. Apply your site risk matrix where it is more specific.

Overall Condition, Follow-Up and Sign-Off

Close the inspection only when defects, restrictions, owners and follow-up requirements are clear.

Overall panel condition	☐ Green - serviceable	☐ Amber - advisory actions	☐ Red - immediate controls	☐ Unknown - further assessment
Follow-up required	☐ No	☐ Yes - planned	☐ Yes - urgent	☐ Competent review required

Immediate controls applied		Work order / action ref	
Next inspection due		Competent person review required?	
Operational restriction / isolation ref		Responsible person	
Close-out summary			

Role	Name	Competence / authorisation	Signature	Date	Comments
Inspector					
Reviewer / approver					

Final check before filing

Confirm all Fail and Advisory items have a defect/action reference, priority, owner, target date and completion route. Attach or store supporting photos, reports and permits with the inspection record.

Move beyond static inspection sheets. Track panel health, evidence, priorities and corrective actions in PanelGuard. Discover PanelGuard or book a demo at nexuspanelguard.com.