

# SPD Maintenance Checklist

For Industrial Installations · Based on IEC 62305 Inspection Requirements



Check Item	Frequency	Pass Criteria	Action if Failed
<b>Visual fault indicator</b>	Every visit	Green / window clear	Replace module immediately
<b>Enclosure condition</b>	Every visit	No cracks, no scorch marks, no moisture ingress	Identify cause before re-energising
<b>Terminal torque</b>	Annual / post-event	Connections secure, no discolouration at terminals	Re-torque to spec; replace if discoloured
<b>Upstream SCPD status</b>	Every visit	Fuse intact / breaker in ON position	Replace fuse or reset breaker; investigate cause
<b>Thermal signs on housing</b>	Every visit	No melting, no burn odour, no soot	De-energise; full inspection before restart
<b>Earthing conductor / PE</b>	Annual	PE connection secure; earthing resistance within site spec	Recheck earthing system — SPD protection is only as good as the earth path
<b>Surge event log</b>	Post-event	No unrecorded events since last inspection	Update log; schedule post-event inspection if surge confirmed
<b>Replacement history</b>	Annual	Module age and replacement dates documented	Replace modules with no documented history if site has active surge exposure
<b>Remote signal contact</b>	Annual	Contact state matches indicator status	Check wiring continuity; replace module if contact and indicator disagree

**Notes:** Inspection intervals per IEC 62305: LPL I = 12 months, LPL II/III/IV = 24 months. High-risk sites: 3–6 months. Post-event checks are mandatory after lightning, switching faults, or system modifications.