



## NFPA 99 + NFPA 70B for Electrical Distribution Systems

**Facility Types Covered:** Hospitals, medical centers, industrial and commercial buildings where reliability and safety of electrical distribution is critical.

NFPA Requirement	Description / Intent	CTM365 Continuous Thermal Monitoring Compliance Method	Compliant?
<b>NFPA 99 §6.9.2.1.1</b>	Facilities shall have a <i>documented electrical preventive maintenance (EMP)</i> program for all electrical distribution equipment serving patient care areas.	CTM365 forms the backbone of a documented EMP, detailing permanently installed sensor points, monitoring parameters, alert logic, review frequency, and corrective-action workflows.	<input checked="" type="checkbox"/>
<b>NFPA 99 §6.9.2.1.2</b>	An <i>alternate maintenance program</i> is permitted if reliability is maintained or improved.	CTM365 provides continuous condition-based monitoring, proven to detect thermal anomalies far earlier than annual IR scans, meeting or exceeding baseline reliability.	<input checked="" type="checkbox"/>
<b>NFPA 99 §6.9.2.2 / Annex A.6.9</b>	Requires periodic inspection, testing, and servicing of distribution equipment.	CTM365 provides <i>24/7 continuous inspection</i> —real-time trending and automated thermal analytics eliminate gaps between periodic inspections.	<input checked="" type="checkbox"/>
<b>NFPA 99 §6.9.3</b>	Inspection/test/maintenance reports must be documented and retained.	All CTM365 events, trends, and reports are stored electronically and exportable as PDF/CSV for AHJ or internal review.	<input checked="" type="checkbox"/>
<b>NFPA 99 §6.9.4</b>	Corrective action must be taken when deficiencies are found.	CTM365 alarm workflows link to maintenance procedures, automatically flagging and timestamping events for corrective response.	<input checked="" type="checkbox"/>
<b>NFPA 70B §9.2.3.1</b>	Condition-based techniques (e.g., continuous thermal monitoring) may replace periodic inspections if effectiveness is proven.	CTM365 implements permanent sensors with calibrated MQTT communication output, continuous trending, and documented alarm verification.	<input checked="" type="checkbox"/>
<b>NFPA 70B §9.2.4 / §9.3</b>	Maintenance data must be trended and analyzed to support reliability-based maintenance decisions.	CTM365 automatically logs and trends thermal data, providing analytics dashboards for degradation patterns and predictive maintenance.	<input checked="" type="checkbox"/>
<b>NFPA 70B §11.3.4</b>	Equipment condition shall be monitored for abnormal heating and recorded.	Each CTM365 sensor provides direct contactless surface temperature of critical connections—recorded continuously in compliance with NFPA 70B and NFPA 99	<input checked="" type="checkbox"/>
<b>NFPA 70B §11.7</b>	Infrared or equivalent thermal inspection is required at intervals or continuously.	CTM365 is the permanent equivalent of IR thermography, providing nonintrusive, continuous temperature readings without interruption.	<input checked="" type="checkbox"/>
<b>NFPA 70B §4.2.2</b>	EMP must include inventory, schedule, and documentation of maintenance activities.	CTM365 integrates with CMMS/SCADA for full traceability: equipment ID, alarm history, service logs, and maintenance verification.	<input checked="" type="checkbox"/>