

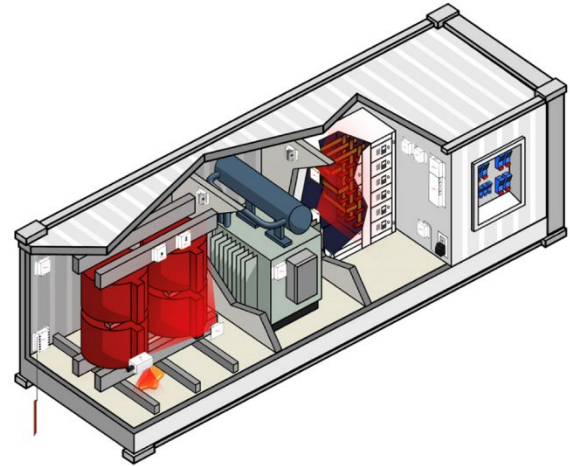
Electrical Substations

Water and electricity don't mix and detecting hazards from water in the form of humidity, condensation or simple ingress is critical for substations.

Another key invisible threat is from corrosion.

Without proper detection, these issues can progress from minor, intermittent system failures with substantial economic consequences to severe incidents such as fires, which threaten both safety and system reliability.

Integrating Kidde Fire Systems' REL-iON sensors into your electrical / power rooms is vital in mitigating these risks and we recommend, should be at the core of your strategy to prevent downtime and catastrophic failure of these mission critical assets. In these applications, REL-iON sensors are strategically positioned at various levels to proactively identify anomalies and prevent potential failures. REL-iON Sensors play a vital role by providing real-time monitoring of thermal changes, humidity levels, and corrosive conditions - factors that contribute to equipment wear and tear.



Part Number	Sensor Use Case	Minimum Recommended
31-BASE-WIRED	Base Unit SensorGateway	1 base required
31-EXP-8HUB	Sensorhub - 8 Ports Hub & 1 Daisy-Starter circuit	1 hub required; hosts 8 sensors
31-BASE-PWR	Power Adapter for Base Unit	1 power adapter required
31-ENV-LEAK-LOC	Monitors leaks or presence of water	3 recommended sensors + cable
31-ENV-CORROSION	Monitors real-time atmospheric corrosion levels and severity per ANSI/ISA 71.04 standard	1 recommended per room
31-SEC-DOOR	The security door contact sensor triggers an alert when the door is opened	1 recommended per door
31-PWR-AC-QUAL	Designed to monitor single-phase power quality	1 recommended per container
31-SEC-DOOR	The security door contact sensor triggers an alert when the door is opened	1 recommended per door
31-ENV-THUM	Monitors temperature and humidity levels	1 recommended per room
31-ENV-CORROSION	Monitors real-time atmospheric corrosion levels and severity per ANSI/ISA 71.04 standard	1 recommended per room
31-ENV-DUST	Monitors dust particles	2 recommended per room
31-SEC-SMOKE	Photoelectric smoke sensor for monitoring smoke inside facilities. This sensor only complements and does NOT replace building fire detection systems where required.	1 recommended per room
31-SEC-TILT	Monitors substation structure	1 recommended per container
31-GAS-H2	Monitors Hydrogen (H2) Gas	1 recommended per container

Notes

- The visual appearance and dimensions presented on this datasheet are for illustrative purposes only and are subject to change without prior notice. Actual product appearance and dimensions may vary due to continuous product improvement and manufacturing.
- Quantities of sensors and other equipment are indicative only. Please ensure adequate coverage based on site and application conditions and dimensions.