



Guardian Connect & Protect

Guardian, Power and Protective
Conductor Monitoring



Power and Protective Conductor Monitoring



We believe that safer systems ensure a more secure world. We connect and protect our customers with inventive electrical solutions.

Our solutions provide safe, resilient and cost-efficient power and protective conductor monitoring solutions, applicable in all buildings with a 3 phase supply*, including but not limited to:

- | | | |
|------------------------|-------------------|------------------------|
| ■ Power utilities | ■ Rail Network | ■ Hotels |
| ■ Data centres | ■ Smart buildings | ■ Hospitality Industry |
| ■ Commercial Buildings | ■ E-mobility | ■ Highrise apartments |
| ■ Schools | ■ Energy storage | ■ Care homes |
| ■ Hospitals | ■ Renewable | ■ Supermarkets |
| ■ Farms | energy farms | ■ Marinas |

* The Guardian can also be used on single and split-phase however, VN-N and VN-E measurements are not available.

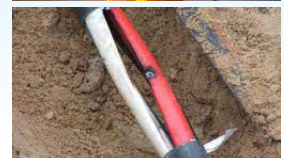
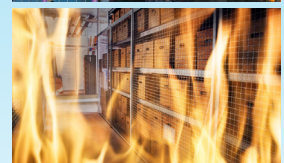
Why power and protective conductor monitoring is important?

The Neutral conductor has a key role in the protection of our electrical infrastructure.

If the Neutral is lost, this can lead to;

- Overheating of electrical installation & appliances
- Serious damage or destruction of appliances
- Potential fire hazard
- Danger of electrocution

For many years broken Neutral faults have been widely reported and need to be measured to reduce the risks of electrical damages and improve safety for people and assets.



What Is Power & Protective Conductor Monitoring?

Introducing the Guardian, a new power and protective conductor monitoring solution for detecting and protecting against broken Neutral faults and stray voltages on connected services.

The Guardian continuously monitors the electricity supply and the electrical infrastructure of the building and can isolate or warn of any detected faults.

Including:

- **Loss of neutral**
- **Broken Pen Conductors**
- **Voltage on protective earth / ground conductors**
- **High and low line voltages**
- **High and low frequency**



How to install the Guardian

The Guardian is simply installed in or along side any existing distribution board with a three-phase supply.*

For complete protection the Guardian should be connected to the main incoming supply and at each distribution board of the infrastructure.

The Guardian can connect to a cloud based portal, allowing you to view the devices at anytime. From here SMS and email alerts can be set to warn you against any disastrous failures.

Additionally The Guardian could be inter- faced with a fire alarm system to alert building users.



Certifications

Model number APM-VT-PWR-HV-D345

C UL US Listed, Measuring and testing equipment E469787

UKCA

The Electrical Equipment (Safety) Regulations 2016

The Electromagnetic Compatibility Regulations 2016

The Restriction of the Use of Certain Hazardous Substances in Electrical Equipment (Amendment) Regulations 2021

Facilitates compliance with BS 7671 A2:2020, Regulation 722.411.4.1 (iii) & (iv)

CE

2014/35/EU, The Low Voltage Directive (LVD)

2014/30/EU, The Electromagnetic Compatibility Directive (EMC) 2011/65/EU, The Restriction of Hazardous Substances Directive (RoHS 2)



Delivering Efficiency and Resilience in Power and Data Infrastructure

