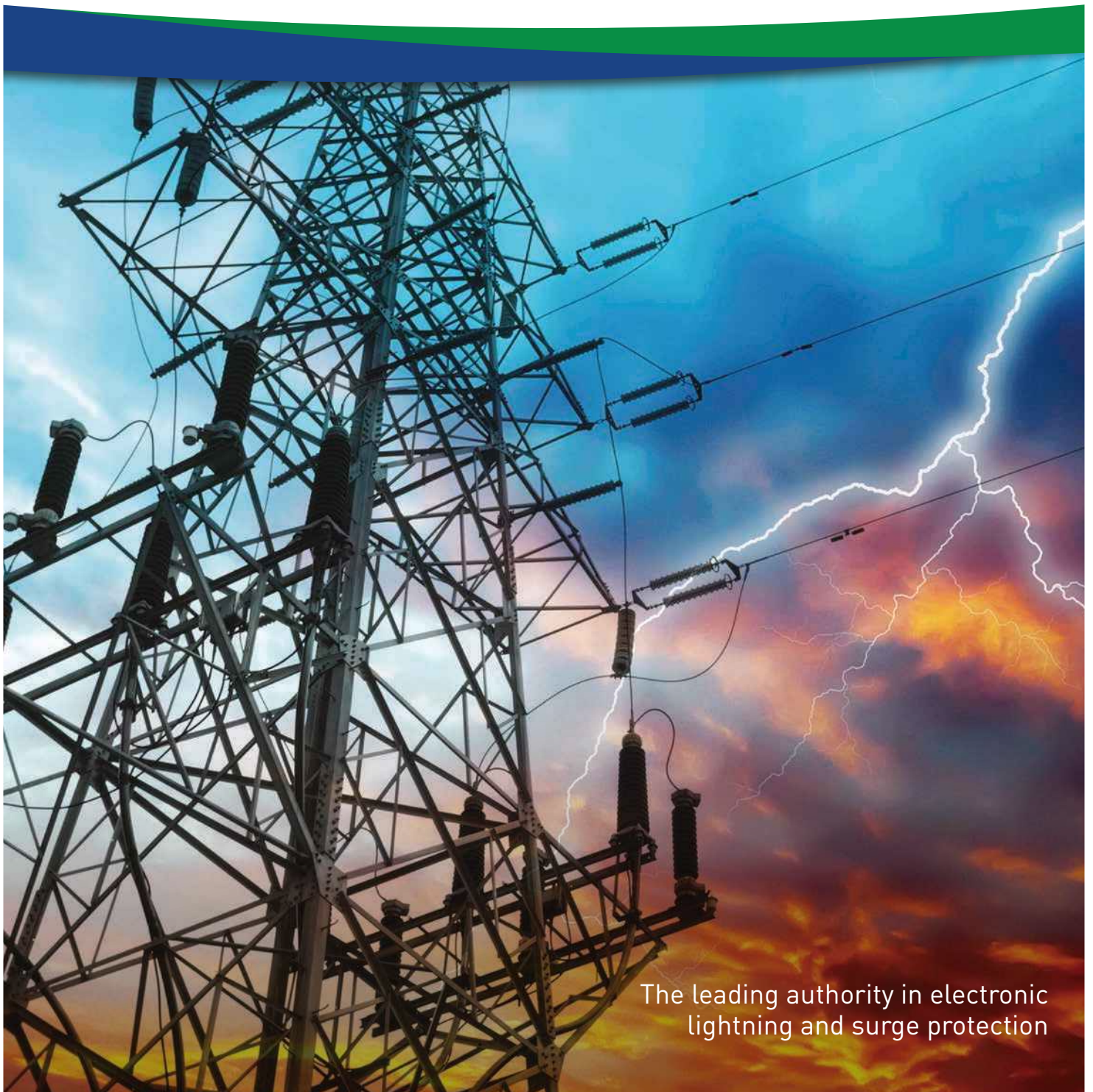




FIRST POWER & SURGE PROTECTION

# Lightning and Surge Protection Systems



The leading authority in electronic  
lightning and surge protection



# First Power and Surge Protection

Based in Sheffield, First Power and Surge Protection are specialists in the field of lightning protection, electronic lightning and surge protection systems, specialist earthing and generator earth nests. We are also experts in voltage optimisation, PFC systems from design to supply, full installation and commissioning.

Working in compliance with BSEN62305, BS7671, 17/18th Edition we also offer traditional external lightning systems to BS 6651, test and inspection. We are market leaders and fully compliant with the ultra modern active lightning rod, also known as ESE's (Early Streamer Emission System) to NFC 17102. – UNE 211 86 with over 500 active systems installed around the UK & Ireland.

With extensive experience in all areas of power and data system protection from over voltage FPSP will guide you through the current standards, their requirements and ultimately deliver solutions for the protection of your power and data equipment to ensure the correct functioning and safe guarding from overvoltage.

FPSP have a project portfolio including, hydrogen refuelling stations, schools, colleges, NHS, properties of The Crown, MOD facilities, supermarket chains, factories, HM Prison sites and multi - occupancy residential buildings.

We are the exclusive UK integrated partner of CPT (Cirprotect), a pioneer in the design and manufacture of lightning and surge protection devices with a presence in over 60 countries worldwide.





# Benefits

FPSP's reputation for excellence and expertise is second to none, providing decisive leadership, cost effective solutions, flexibility and the knowledge necessary to respond to any issues our customers are experiencing.

FPSP is a complete one stop shop where you will find solutions above and beyond those of our competitors.

Through technical innovation and CPT products we offer a unique combination of design consultancy and product supply, full installation and commissioning. We are continually raising the bar and recognise that today's best is never good enough for tomorrow.



“ FPSP's faith in the product range is such that we offer a unique 10 year warranty.



# Solutions

In these days of high tech business and commerce we are all dependent on electronic and electrical equipment. This equipment is all connected to the power grid, often exchanging data and signals through communication lines. These interconnecting networks provide a direct route for over-voltages of serious and significant values, we are here to ensure that this never has an impact on your business.

## **Protection against lightning and over-voltages ensures:**

- Safety of people, goods and equipment
- Continuity of installation services
- Improved energy efficiency by reducing power consumption
- Compliance to BSEN 62305 primary 'R' values:

**R1 - Loss of human life**

**R2 - Loss of services to the public**

**R3 - Loss of cultural heritage**

**R4 - Loss of economic value**

## **FPSP offers a wide range of products and services to provide specific solutions for all your surge and lightning protection needs:**

- Internal protection (surge and over-voltage protectors)
- External protection (ESE lightning rods and Faradisation)
- Grounding systems and Insulation Monitors
- Design, technical, installation, and training services
- Laboratory based witness testing





# Products

Our brand, CPT (Cirprotec) is exclusive to FPSP in the UK & Ireland and is the leading international player in the lightning and surge protection sector.

## Specialist products include:

- Data Devices
- Telecoms
- Signal Lines
- Wind Farms
- Photovoltaic
- Low Voltage

All FPSP products are manufactured in Europe to UK & European standards and carry the CE mark. Our internal lightning and surge devices are compliant to BSEN 62305, BS 7671 and IEC 62305.





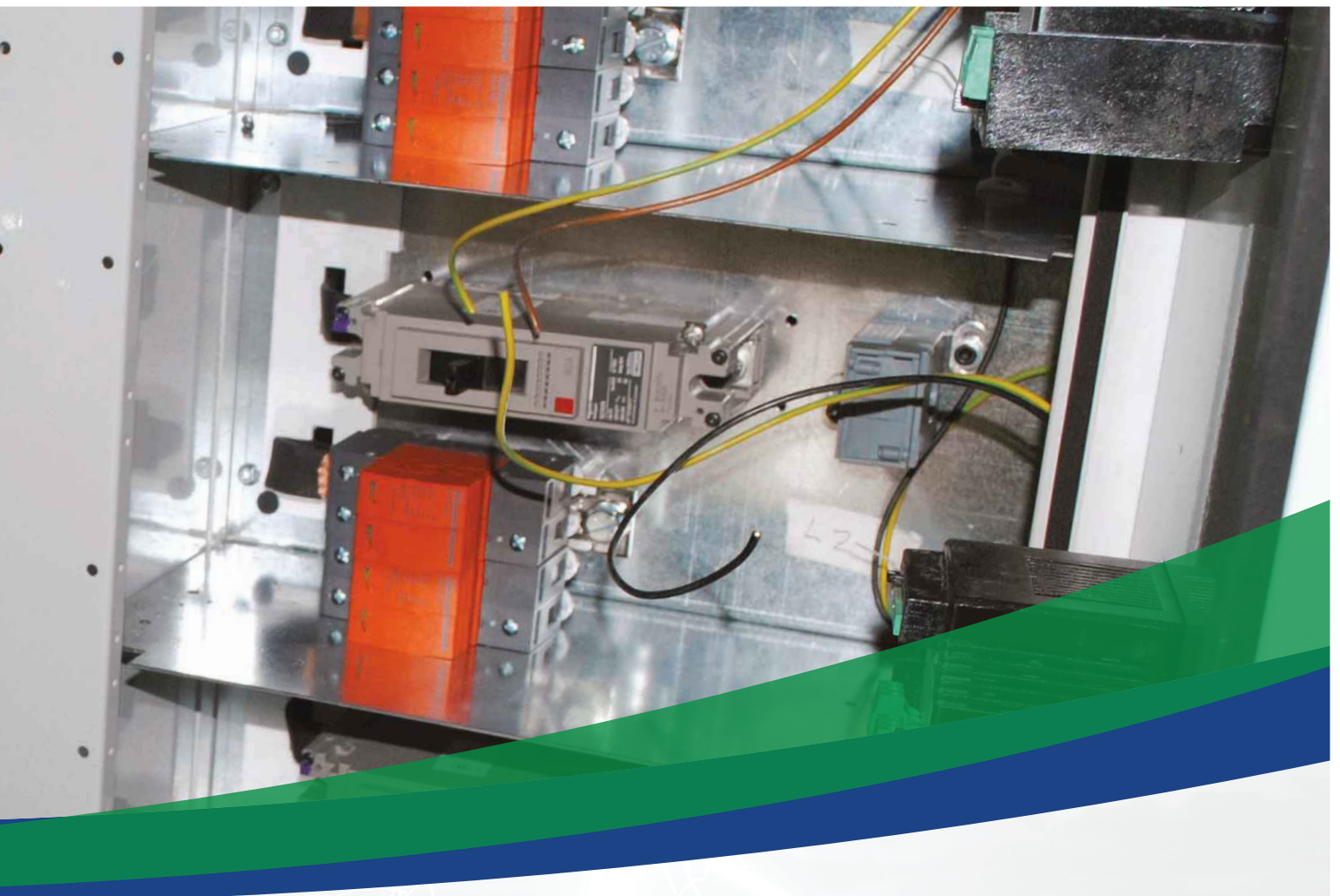
# Services

We pride ourselves on our knowledge and excellence in the field of Lightning and Surge Protection and offer complete turnkey solutions for all your external and internal lightning and surge requirements:

- Site Surveys
- System Diagnostics
- Project Design
- Annual Test and Inspection
- Product Supply
- System Installation
- Project Engineering

**Whilst our expertise focuses on external and internal lightning and surge protection, our multi-disciplined engineering skills enable us to offer:**

- Reports and Analyses
- Power Surveys
- Energy Efficiency
- Voltage Optimisation
- Power Factor Correction
- Harmonic Interrogation



# Seminars

FPSP is ready to assist with all types of regulatory compliance issues and can facilitate informative training seminars on:

- ESE Technology
- Lightning Protection Zones Concept
- Description of Lightning, Surge and Transient over-voltages
- BSEN 62305
- BS 6651 Lightning Protection
- 17/18th Edition Wiring Regulations
- BS 7671
- Harmonics
- Power Factor Correction

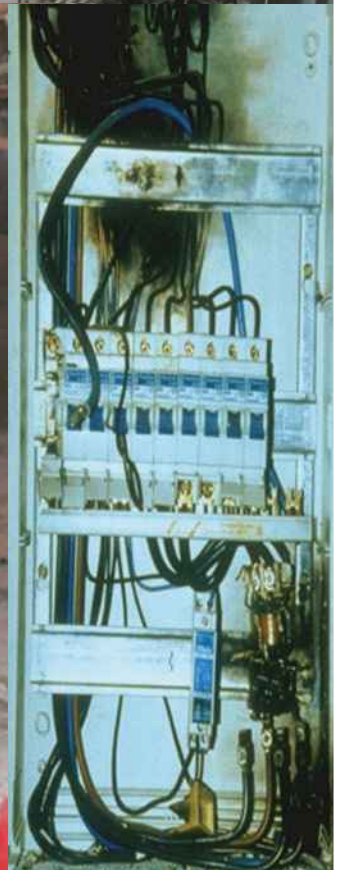
“ FPSP is ready to assist with all types of regulatory compliance.

# When Lightning Strikes with NO Protection...





**Direct lightning strikes can cause more than just visible damage to a business. The images shown below are actual damage caused by lightning strikes, one business suffered a total loss of £231k following a 14 day refurbishment.**



# We are proud to have delivered...

FPSP thrive on excellence and being the best, we are always ready and eager to assist anyone who needs help with a high quality, cost effective solution for lightning and surge protection systems. Our team is prepared to help with complete regulatory compliance issues such as BSEN62305 - BS6651 - NFC 17-102 - UNE 21186 - BS7671 and our large product range meets the BSEN62305 part 4 and 17/18th edition wiring regulations which are required within the UK.

Our unique 10 year guarantee distinguishes us from our competition and is probably why we are chosen to supply and fit devices throughout the UK and Ireland protecting hospitals, schools, colleges, MOD sites, PV Arrays (Solar Panels) and other crucial buildings' power equipment and data systems.

## Hospitals

Our systems are protecting hospitals throughout the UK against direct lightning strikes and surges from the power grid – our turnkey systems and quality devices are protecting amongst others:

- **Adamson Hospital** - FPSP designed and supplied all lightning and surge protective devices throughout the site both internally and externally.
- **Northern General Laboratory Rationalisation** - Northern General Hospital is a NHS trust hospital based in Sheffield for whom we designed a protection system for the laboratory rationalisation wing of the hospital.
- **Nottingham Hospital**
- **Sheffield Children's Hospital**
- **Coventry & Warwickshire NHS Trust** - This trust operates the entire computer network system for the middle of England.
- **Durham Hospital**
- **Leeds General Hospital**
- **Yorkshire Eye Hospital**
- **Newcastle University Institute of Neuroscience**



## Palace of Holyroodhouse (The Queens Royal Residence in Scotland)

The Palace of Holyroodhouse (Holyrood Palace) is the official Scottish residence of HM the Queen and has been used by Monarchs since the 16th century. We were chosen above all others to produce a high quality, cost effective lightning and surge protection system for the entire building. We produced the full design for the electrical systems as well as supplying all the devices and ultimately installing the full power protection network system which we then certified to BSEN62305 part 4.

“ Design, supply and installation of lightning and surge protection units that meet the BSEN 62305 standard.

## Colleges & Schools



FPSP produced full design and supplied devices to the BSEN 62305 standard to amongst others:

### COLLEGES

- St Marys Our Virgin College Christ Church
- Kingswood College
- Langworth College
- Barnsley College

### SCHOOLS

- Malet Lambert School
- PLC School
- Stocksbridge School
- Winifred Holtby & Twindykes School
- All Saints & Seven Hills School
- Bents Green School
- City School
- Forge Valley School
- Hereford School
- St Bedes School

## Ministry Of Defence

- **RAF Waddington** - Full design supply, manufacture of composite switchgear, fully detailed design requirements for the main headers for all the ammunition compounds. Consisting of control systems, specialist earthing combinations of lightning and surge protection in bespoke built panels of our design and manufacture this met the BSEN 62305 standard.
- **RAF Wittering** - supply of lightning and surge protection units that meet the meet the BSEN 62305 standard.
- **MOD Abbey Wood** - system suppliers of surge protection.
- **Deepcut Training Camp** Bomb storage buildings - turnkey design process and supply of all internal and external lightning and surge protection
- **RAF Digby** - supply of lightning and surge protection units that meet the meet the BSEN 62305 standard.
- **Fort Halstead** - Design, supply and installation of lightning and surge protection units that meet the BSEN 62305 standard for two MOD laboratories.





# FPSP

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