

Shielding
your future

FPG
SCUTUM GROUP

HIGH HAZARD ENVIRONMENTS

Protecting property and life in the
tunnel and transportation sectors



“Striving for continuous improvement in quality, value and performance.”

Since January 1989 FPG have provided fire and security solutions to a wide portfolio of customers, protecting their property and life from fire, theft and vandalism. Our partnership with the Scutum Group in 2017, a €170m turnover organisation, creates opportunity to expand our customer portfolio even further. We strive for continuous improvement in quality, value and performance, recognising our customers require our systems and services to become more efficient, as we respond to the growing demands of our fast changing world.

■ Values & Trust

Trust is earned by doing what we say we will, demanding care, consistency and competence, committing us to high ethical standards and is central to who and what we are. We must deliver on our promises, meeting our customers’ requirement for quality, delivery, responsiveness and reliability.

Testing our values is central to our business ethos hence we engage in a programme of rigorous 3rd party accreditation such as BAFE SP203 Pt 1&3 (All Modules), ISO9001, ISO 14001, Achilles UVDB B2 (average of +90% score in H&S, Quality & Environmental disciplines) & FPAL, SSAIB, Safe Contractor & Construction line. We are members of the FIA and have, historically, been awarded IIP status.

■ Capabilities

Our fire, security and emergency lighting systems are installed throughout the UK and Ireland. From Hospitality to Defence, Health to Transportation, Financial to the Cloud, Petrochemical and High Hazard, FPG are proud to be protecting a plethora of businesses from small to the largest Blue Chip, Commercial and Industrial Institutions. Our service extends across sales, design, installation, commissioning and of course maintenance. We recruit and retain the best professionals in the industry providing them with both in-house and leading product manufacturers training to ensure they maintain the skill levels necessary to meet our customers’ needs.





FIRE & GAS DETECTION

■ Fast and Highly Reliable Detection Response

ASAtechnology™ Detectors offer advanced signal analysis and selectable parameter sets. As a result, they ensure very fast and highly reliable detection of the fire criteria; smoke, heat and carbon monoxide, in the most demanding of applications from data centres to industrial production facilities.

■ Point Detectors

Point detectors incorporating ASAtechnology™ are especially suited for demanding applications with a high risk of fire and many deceptive phenomena. Applications include hotel rooms where the detector must be mounted close to the bathroom door, multi-purpose halls and large conference rooms.

■ Flame Detectors

Areas containing highly flammable materials, such as flammable stores are better covered with flame detectors. FPG's flame detector range include both single-channel IR for simple applications as well as 3-channel IR for areas with deceptive phenomena such as halogen lamps, bright sunlight or welding.

■ ATEX Detectors

Ex solutions are the ideal choice for all gas zones 0, 1 and 2. FPG offer a complete range of detectors that can be used to protect areas subject to explosion hazards, such as oil refineries, flour mills or battery rooms. Excellent detection reliability and immunity to deceptive phenomena prevent unnecessary downtime and costs caused by false alarms.

■ High Hazard

We offer complete turnkey solutions for the Tunnel Operations Business Sector, providing project specific hazard analysis and development of optimised solutions. From ATEX compliant electronic detection, Chemical and Inert gas to water mist suppression, FPG deliver solutions utilising our CompEX trained expertise.

■ Established and Proven

Our detectors are backed by expertise gained from over two decades of installing systems to protect some of the most demanding and delicate installations across the UK. Protecting people, assets and maintaining business continuity are all paramount to FPG.



Solution Partner
Fire, Security & High Hazard Solutions



■ 1. Linear Heat Detection

Linear heat detection is installed within each tunnel, in the access voids beneath the roadways and within the sump area, protecting all accessible areas within the tunnel system.

■ 2. Gas Sampling Detection

Within the sump gas is sampled by drawing it upwards, through individual pipes, to the gas detection panel from multiple points along the length of sump.

■ 3. Nitrogen Foam Skid

Consisting of inert gas and water tanks, the gas foam extinguishing system can be activated in the event that gas is detected by the detection panel.

■ 4. Nitrogen Foam Generator

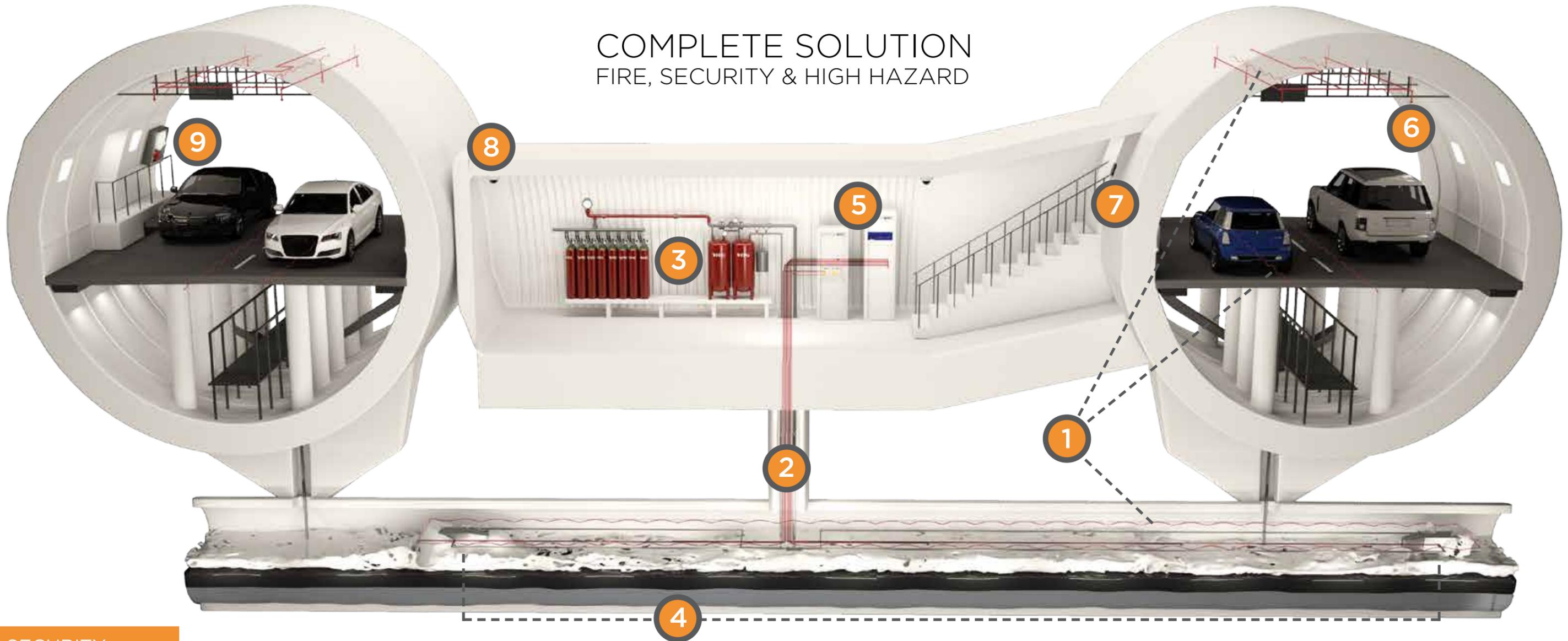
At the generator both foam and inert gas combine and create an inert gas foam blanket. The foam fills the entire sump volume, extinguishing the fire.

■ 5. Gas Detection & Extinguishing Panels

Gas detection panels constantly sample gas levels. If gas reaches critical levels or ignition is detected, the system is activated either before a fire occurs, or before any significant fire damage.

■ 6. Water Mist

Water mist systems above the roadway protect traffic without any damage to vehicles. The vapour cools the area, lowering oxygen levels and protecting any adjoining risks.



■ 7. Access Control

The plant room is secured via a combination of biometric and RFID access control. A security management system provides an audit of who accessed the room at any given time.

■ 8. CCTV

HD IP cameras monitor secure areas. Cameras reposition if the room is accessed. Frame rates drop to save on storage during inactivity and powerful video analytics alert if motion is detected.

■ 9. Hydrants, Emergency Points, Hose Reels

Emergency points along the tunnel provide a hydrant system to supply charged water close to a potential fire via hose reels, as well as portable fire extinguishers.



FIRE & EXPLOSION SUPPRESSION

■ Argonite® C60

Argonite C60 is a total flooding system that is highly effective in extinguishing fires in enclosed rooms and spaces. It reduces the oxygen concentration in the air from the normal 21%, to below the 15% level needed to support combustion. This extinguishing atmosphere is retained in the enclosure long after the discharge, minimising agent leakage.

■ CO2

CO2 is a colourless, odourless, inert gas that is non-conductive, causing no damage or residue. Suitable for even the most inaccessible areas of risk, CO2 extinguishes fire by reducing the oxygen level to the point where combustion cannot be sustained. High mass flow rates enable the system to react within the first few seconds of a fire.

■ Inergen® (I.G.541)

Inergen is singularly unique in that no other inert gas has the ability to rapidly extinguish a fire, while providing a safe environment for any person within the occupied area. Inergen does not create toxic or corrosive by-products and has been used extensively throughout the world as a preferred gaseous fire suppression agent for over sixteen years.

■ Nitrogen Foam

Nitrogen foam inerting provides a safe working environment in the presence of hydrocarbon gases. Particularly suited to sumps, our nitrogen foam inerting solution is fast, reliable, cost-effective, biodegradable and eliminates the risk of explosions. It is stable and visible, providing visual proof of the inert system.

■ Novec 1230

The next generation in gaseous fire suppression technology, designed to protect human life and high value assets. It meets industry concerns for safety, performance and the environment. Novec distributes uniformly throughout the hazard zone and reaches extinguishing concentrations in ten seconds or less.

■ Water Mist

Watermist is a versatile and highly efficient fire-fighting medium, combining the fire suppression properties of both conventional water-based systems and gaseous fire suppression systems. FPG design and install both a low and a high-pressure version of water mist, delivering droplet momentum to the seat of the fire.





HIGH HAZARD

■ Turnkey Solutions

Our FPG High Hazard Division provides complete turnkey solutions and services throughout the Tunnel Operations Business Sector. The Division's role is to provide project specific hazard analysis and development of optimised solutions. From conception FPG supports the client's design and engineering teams, discussing their detailed requirements.

■ Clean, Versatile, Fast and Efficient

FPG gas suppression systems can be used in some of the most hazardous and inaccessible areas. They can react extremely quickly with high mass flow rates to efficiently suppress a fire without any odour, residue, damage or mess. Non-conductive gases are also safe for use on electrical equipment.



■ At the Cutting Edge

FPG has considerable resources, being staffed by qualified, experienced personnel with a keen focus on customer care, ensuring consistent delivery of a high quality service. Our experienced Engineers and Designers use the most up to date computer aided technology, applying it to systems throughout the Tunnel Operations Business Sector on a number of diverse applications.

■ Safety, Performance and the Environment

Our next generation gaseous fire suppression technologies ensure that we stay at the forefront of safety, providing high performance suppression systems that are safe, clean and environmentally friendly.





CONTACT US

FPG operates Nationally from its offices all across the UK, fully equipped to offer you, the customer, the best possible solutions to meet your needs. Our service team's 24x7 response throughout the year combined with our IT infrastructure and expertise, guarantees your peace of mind and ensures continuous improvement in quality, value and performance.

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