

INNOVATIVE EXPLOSION PROTECTION

system6000 is an innovative explosion protection solution combining the very latest in gas detection and conversion technology.

This Zone 2 active protection system is designed with ease of use and the safety of your employees in mind.

Safety comes at the touch of a key, making it impossible for your equipment to start without system6000 activated ensuring that your operator and their equipment is always protected.



system6000™

FEATURES AND BENEFITS

MINIMISING YOUR RISK AT THE TOUCH OF A KEY

With a choice of interchangeable Infrared and Pellistor gas sensing heads, you can be sure that your people and protected with the most suitable explosion protection solution regardless of the vapours and gases present.

FOR ELECTRIC AND DIESEL APPLICATIONS

- ✓ Forced gas test at start-up of truck to ensure system integrity and calibration
- ✓ Control module providing continuous interface to the truck operator confirming whether the area is safe and system is ok
- ✓ Infrared or Pellistor gas sensing head certified for use with gas groups IIA or IIB
- ✓ Temperature monitoring of hot surfaces to T.3 200°C or T.4 135°C (including brakes & hydraulic fluid)
- ✓ All arcing, sparking and hot components are risk assessed and fitted with restricted breathing enclosures to restrict the ingress of any flammable gas/vapour
- ✓ Truck forks are clad with a non-sparking material (stainless steel)
- ✓ SVD inlet air shutdown valve for automatic engine overspeed and manual shutdown of diesel engines
- ✓ Water cooled exhaust manifold and gas cooler limits surface and exhaust temperatures to the specified temperature class for diesel engines

HOW ITS USED

system6000 START-UP

A system6000 protected truck cannot begin its daily operation without system6000 being enabled.

The daily start-up process is automatic and is activated by the touch of a **GREEN** or **BLUE** key. It takes between 30 and 120 seconds depending on the gas sensing technology applied.

system6000 SHUTDOWN

If gas/vapour is detected at 10% LEL the driver gets visual/audible warnings and should drive away from the area warning any colleagues of the imminent danger.

If gas/vapour levels rise to 25% LEL the truck will automatically be brought to a controlled stop preventing any explosions and protecting the driver and site.

system6000 OPERATION

After the start-up procedure is complete, the truck operates as normal with the driver and equipment protected under the "umbrella" of system6000 explosion protection.

system6000 RESTART

Once the truck has shutdown, it cannot be re-started without the permission of the "Person in Authority" e.g. Site Manager, Safety Manager, Works Engineer.

When they consider it is safe to resume operations they can apply the system6000 **RED** key. The system will check the area is gas free before an automatic gas test allows truck to restart.



APPLICATIONS

system6000 is specifically designed for all types of diesel engine and battery electric mobile equipment. Each system6000 conversion is custom-made to work with your equipment so that it retains all of its original specification, safety and ergonomic features.

CERTIFICATION

system6000 is certified to IECEx for global operation and allows your employees to operate within a potentially explosive area risk free, making it the safest solution for companies who value their people above all else.

ABOUT PYROBAN

Pyroban provide explosion protection solutions for materials handling equipment and diesel engines.

For over 50 years we have been at the forefront of the industry developing products to protect your people, your site and equipment when operating in hazardous & added safety areas.

QUALITY

Additional to the ISO9001:2015 quality standard certification, each Pyroban Group company attains the required level of 3rd party certification for the business markets it serves including ATEX, IECEx, GB and NEC.