

PYROBAN®

Gascheka™

Preventing explosions, protecting people



Gascheka, the cost effective safety solution for areas not formally classified

Gascheka offers workers and sites added safety when used in the chemical, pharmaceutical, paints, coatings, defence, refineries and logistics sectors, outside of formally classified 'zoned' areas. Now available with either infrared or pellistor based gas/vapour sensing to suit all applications and supplied as a kit for local installation.

**ADDED
SAFETY**

Pyroban is a specialist engineering company that converts standard forklift trucks and similar mobile equipment so that they cannot cause a fire or explosion when used within industries that process, store and distribute flammable materials.

Gascheka™

Gascheka is a gas detection and control solution for all types of equipment used in areas where there may be a very limited risk of explosion and/or where the area is not formally classified.

Suitable for all types of equipment, it may also be possible to fit Gascheka to maintenance or temporary equipment used in hazardous areas to provide a risk managed safety solution.

Fitted in just a matter of hours onsite, Gascheka can be interchanged across different equipment and often forms part of a 'work permit' specifically designed for refinery vehicles.

The system provides audible and visual warning when it detects a gas or vapour (at 10% Lower Explosive Limit (LEL) propane in air) and at 25% LEL it shuts down the protected equipment automatically, minimising any risk of an explosion.

The system auto-calibrates and self-tests the gas head at start up to ensure it is working correctly.

Gascheka is ATEX 94/9/EC compliant and offered with IECEx certification to IEC 60079 standards.



Gascheka Control Module



Gascheka is sold as a kit of parts for local installation on a wide range of equipment

With auto calibration and a forced gas test to check system integrity at start-up, operators will be confident gases and vapours will be detected.

It is critical that the gas sensing head is selected according to the materials being handled. The wrong choice will mean the equipment may be blind to the presence of a flammable atmosphere, putting the operator and surrounding environment at risk.

Nigel Tester, Principle Project Engineer, Pyroban Group Ltd

INFRARED AND PELLISTOR SENSING OPTIONS

Choose either infrared or pellistor gas sensing to suit the application. Both options have their advantages and limitations and should be specified according to the risk and application.

Pellistor option

Our traditional pellistor system detects more than 95% of hydrocarbons and is therefore the most versatile system for users in the chemicals and paints/coating industries and when handling a comprehensive range of products. However, pellistor based systems may not be suitable if silicones are present in the environment.

Infrared option

Infrared technology is particularly suited to operations with specific hazards. For example, it suits distilleries, aerosol operations and the oil and gas sector. The Pyroban Infrared system offers faster start-up and lower lifetime costs.



Talk to the experts at Pyroban to help you make the safe choice when supplying or operating EX mobile equipment.

Choose either infrared (left) or pellistor gas sensing heads according to the application.



Safe & Secure - Drivers rely on Gascheka

LIFETIME SAFETY

Explosion proof equipment will be delivered to site safe, however it should be maintained safely throughout its life. Follow these three steps:

1) ENSURE MAINTENANCE BY TRAINED PERSONNEL

Pyroban provides full training courses and certification for customer engineers maintaining the equipment.

End users should ensure that service engineers maintaining the equipment have a current Pyroban safety certificate.

2) FOLLOW MAINTENANCE SCHEDULES / GENUINE PARTS

Ensure the equipment is serviced according to Pyroban maintenance schedules using Pyroban approved parts.

3) EX-ASA - ANNUAL SAFETY AUDITS

Ensure equipment has an annual EX-ASA Audit, in accordance with EN 60079-17:2007.



Pyroban provides a full range of explosion prevention solutions. Dust solutions are also available.

About Pyroban

The Pyroban Group provides explosion proof safety and environmental solutions for industry worldwide. Founded in 1972, Pyroban now operates manufacturing facilities in Europe and Asia with regional sales and service centres throughout the world. With continued investment in research, development and customer services, Pyroban remains a global leader in its field.



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