

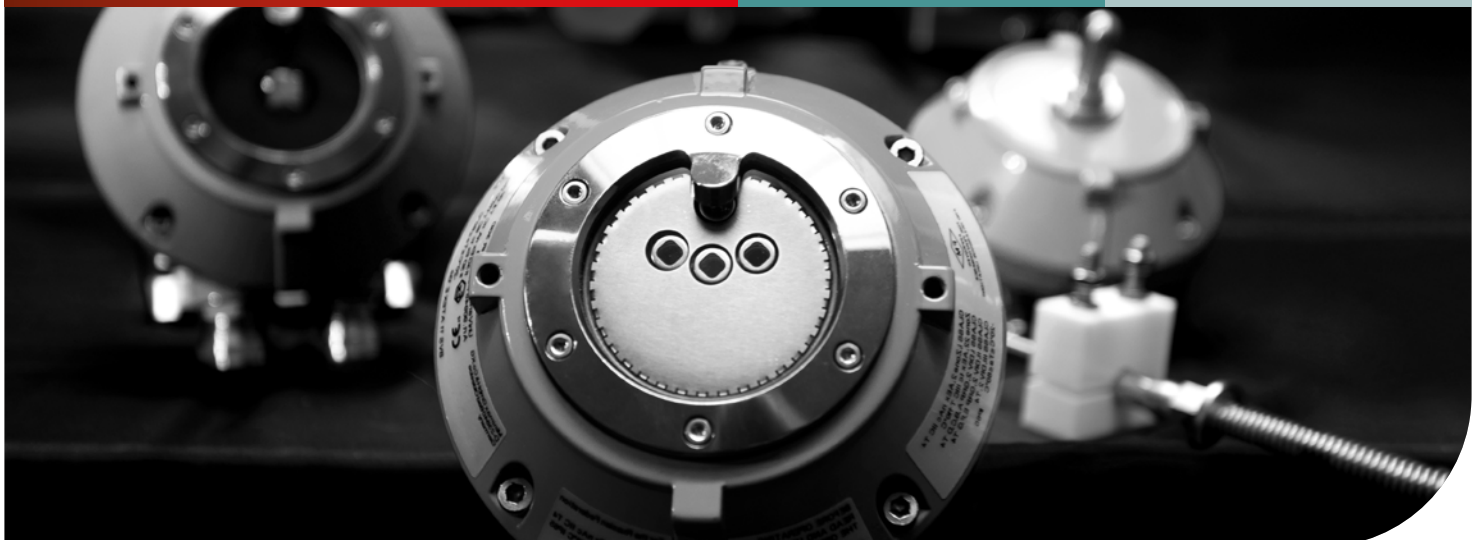
minimax
Experts in fire protection

Safety, **out on the open sea.**

Our offshore fire protection solutions.

INDUSTRIES

OFFSHORE



Perfect **protection**

on every platform.

There are countless offshore applications: AC platforms, HVDC stations, oil and gas platforms, and many more. They all have one thing in common: Operations on an offshore platform leave no room for half-measures. There's no emergency service that can arrive in ten minutes, no repair shop next door, and no second chance in the event of a system failure.

Safety, round-the-clock availability, redundant design as well as remote control and diagnostics are therefore essential requirements. Minimax develops tailor-made solutions for every type of platform – from the initial risk analysis to ongoing maintenance, no matter how demanding the requirements.



Certified by:



Lloyd's
Register



Comprehensive **Services** for Operators.

We support offshore projects from the initial concept through to maintenance – all from a single source:

- ✓ **Planning & Engineering:** certified personnel, even for special customer requirements
- ✓ **Manufacturing:** consistently high quality, whether in-house or externally supplied
- ✓ **Testing:** every system is checked internally before it goes out to sea
- ✓ **Installation, Commissioning & Service:** certified technicians on site, ready to respond at any time
- ✓ **Spare Parts Supply:** guaranteed, even over long project durations
- ✓ **Modernization:** we keep your fire suppression system up to date with the latest technology



TECHNOLOGIES

Deck Integrated Firefighting Systems (DIFFS) The fire suppression system for the helideck can be foam- or water-based, pump- or nitrogen-powered, and delivered via nozzles, hand-held spray lances, or monitors. A concrete example: pop-up nozzles. They are recessed into the deck and do not interfere with the helicopter during landing – nor do they get in the way of the crew. In an emergency, they extend from the floor and spread a blanket of foam across the entire landing area. Alternatively, spilled liquids are flushed away with water to extinguish the fire. Internationally certified by DNV, Lloyd's Register, and the CAA, among others.



Compressed Air Foam System (CAFS) CAFS combines water, foam concentrate, and compressed air or nitrogen in a compact, pre-assembled fire suppression system – ready for installation and immediate use. The result is an exceptionally thick, highly effective foam that sticks even to vertical surfaces instead of simply running off. Despite minimal water consumption, CAFS delivers high fire suppression performance and efficiently slows the spread of fire. The foam reliably cools the surface, covers the burning material like a blanket, and prevents it from reigniting – ideal when water is in short supply on a platform.





Fire alarm and suppression control panels, such as the Clunid FMZ6000, are at the heart of active fire protection. They receive signals from all detectors, alert the crew and fire department in an emergency, and automatically activate the fire suppression system. On an offshore platform, even more factors come into play, which is why each control panel can be remotely activated and diagnosed via HMI, SCADA, or comparable systems – without having to travel to the facility. The **UniVario industrial fire detectors** used for flames, heat, or hydrogen are manufactured entirely in-house – ensuring quality you can rely on even in the middle of the ocean.



Oxeo inert gas fire suppression systems use IG-100 or IG-541 – two gases that are harmless to people but deprive the fire of oxygen. Even embers in hidden corners are reliably extinguished without the fire reigniting. This makes Oxeo particularly suitable for manned platforms and areas with high fire loads, such as those where flammable liquids or substances like methanol are stored. And because every minute of downtime on a platform is costly:

Thanks to the **Oxeo Refill** valve, the system can be replenished on-site immediately after a partial discharge, test, or leak – using a nitrogen generator or compressor, without the need to replace cylinders or system shutdown.



Minifog ProCon XP watermist systems use higher operating pressures to atomize water so finely that it evaporates within seconds. This combined cooling and oxygen-displacement effect extinguishes fires efficiently, using significantly less water than conventional deluge systems. Less water means less secondary damage. Depending on the application, various system configurations are available for server rooms, emergency power systems, and building services.

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Minimax GmbH &
Minimax Fire Solutions International GmbH

Industriestraße 10/12
23840 Bad Oldesloe
+49 4531 803-0
mfsi-sales@minimax.de

minimax.com

Visit us online:

