

CASE STUDY

INTEGRATED FIRE PROTECTION IN THE INDUSTRY

AMFE PROTECTS MANUFACTURERS OF BODY CARE AND HYGIENE PRODUCTS

The pelzGROUP from Schleswig-Holstein is a globally active company that specializes in the manufacture of cotton products for personal care and hygiene as well as sustainable films and industrial nonwovens. With several production sites and a broad portfolio, the company attaches great importance to delivery capability and operational reliability.

In the pelzGROUP production halls, the manufacturing processes lead to high ambient temperatures. The dust generated during fiber processing also increases the risk of fire. Some of the control cabinets for system control are located far away from each other, which makes access difficult in an emergency. The situation in the automated high-bay warehouse is particularly challenging: the control cabinets there are mounted on mobile transport lifts, which makes both accessibility for emergency services and fire detection much more difficult.

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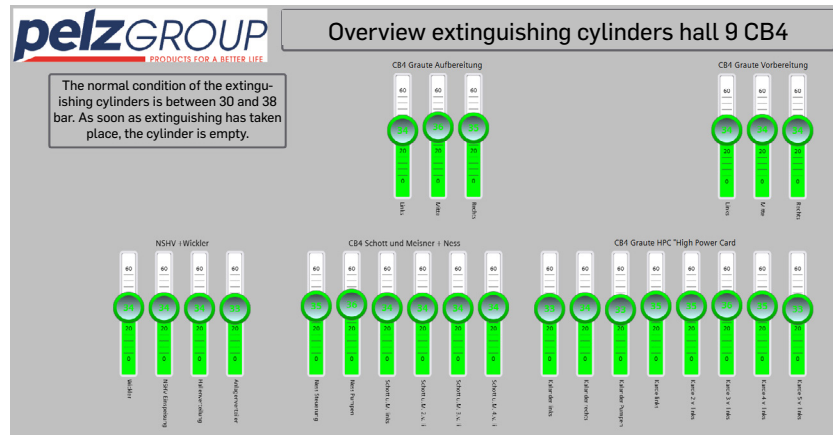
The AMFE as a device-integrated extinguishing system prevents operational failures and **consequential fire damage reduced to a minimum.**



Jan Rosenkranz
Electrical Engineering
pelzGROUP

To prevent operational interruptions and ensure delivery capability, pelzGROUP has installed 90 R-AMFEs with a trigger temperature of 79°C or 93°C in its control cabinets. These were equipped with digital and analog pressure sensors to ensure permanent pressure monitoring. The R-AMFEs have been connected to the system's PLC control unit by the customer, allowing the pressure conditions of the AMFEs to be checked remotely. A decisive advantage of the solution lies in the clear and precise evaluation of the pressure values via the existing pelzGROUP PLC control unit.

This integration not only enables automated monitoring of the extinguishing cartridges, but also seamless documentation of the operating parameters.



The central data evaluation gives technicians a precise overview of the status of all installed AMFEs and allows them to intervene quickly in the event of a fault.

In addition to the technically sophisticated evaluation, pelzGROUP placed an essential focus on the alarm chain, which is activated in the event of a pressure drop or when the fire extinguishing system is triggered.

A signal is sent to the security service via the fire alarm system (FAS) to initiate further measures. In addition, responsible employees are alerted to the incident by SMS. Thanks to the precise evaluation, further important information such as the affected area and the number of triggered fire extinguishing systems can be forwarded directly.

Thanks to the installation of the R-AMFE with digital pressure gauge, pelzGROUP has been able to significantly reduce the risk of fire in its production facilities. The automatic pressure monitoring system detects potential fires at an early stage. This minimizes interruptions to operations, ensures the company's ability to deliver and improves the protection of employees and production facilities.

The holistic solution - from automated evaluation and fire extinguishing to the defined reporting chain - has also received very positive feedback from property insurers and underlines the pioneering role of pelzGROUP in preventive fire protection.

PROJECTSUMMARY:

Country: Germany
 Partner: Laurer ProTec GmbH
 Endcustomer: pelzGROUP
 Segment: Industry
 Solution: 90x R-AMFE 79°C / 93°C with digital or analog pressure gauge



If you have any questions about possible applications or technical details of the automatic miniature fire extinguishing unit, please contact, please contact Nico Kühn Business Development Manager AMFE (nico.kuehn@job-group.com).

R-AMFE with pressure sensor for remote monitoring



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