

Press Message

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Safety and Security for hydrogen plants: minimising risks, ensuring availability

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Ostfildern, 29.09.2026 - **The hydrogen economy relies on digitisation and automation to operate plants efficiently and in a scalable manner. As a result, the requirements for Functional Safety and Industrial Security are also increasing. At the Hydrogen Technology World Expo in Hamburg from 20-22 October 2026, the automation company Pilz will be providing information on how operators, integrators and plant manufacturers can provide holistic protection for their hydrogen plants, minimise risks and permanently increase plant availability.**

Contents at a glance:

- *Pilz at the Hydrogen Technology Expo in Hamburg – Hall 6, Stand H49.*
- *Comply with regulatory security requirements such as IEC 62443, NIS2 and the Cyber Resilience Act*
- *Work together to implement Safety and Security measures for hydrogen plants*

Whether it's a matter of electrolysis plants, storage facilities, distribution networks or hydrogen refuelling stations: operators are increasingly investing in automation, digitisation and remote access. In order to make processes more efficient and expand the hydrogen economy sustainably, a holistic approach to safety is required. Pilz, the automation expert, helps companies to connect Safety and Security effectively, thereby laying the foundations for safe and available plant operation.

Keeping an early eye on regulatory developments

New legal requirements and standards such as the Machinery Regulation, IEC 62443, NIS2 and the Cyber Resilience Act are increasingly bringing Industrial Security into the spotlight. Pilz actively tracks these developments, participates in standards committees and helps companies to implement regulatory requirements practically at an early stage.

Holistic solutions for Safety and Security

At the Hydrogen Technology World Expo 2026 in Hamburg, Pilz will demonstrate how companies across the hydrogen added value chain can minimise risks, meet safety requirements and ensure the long-term availability of their plant. Pilz offers solutions for controlling and monitoring safety-related functions such as pressure, temperature, current and voltage, as well as for leak, gas and flame detection. These are supplemented by Industrial Security solutions designed to protect networked plants and sensitive data. Security assessments and risk analyses also help to identify vulnerabilities at an early stage and strengthen cyber resilience in a targeted manner.

*Pilz at Hydrogen Technology World Expo 2026: Hall 6,
Stand: H49*

- [Further information on safety solutions for the hydrogen industry](#)



Caption: Industry-proven solutions from Pilz enable the safe monitoring and control of processes across the whole hydrogen added value chain. Experts from Pilz will provide information at Hydrogen World Expo. (Photo: © Pilz GmbH & Co. KG)

You can find texts and images for downloading at:

<https://www.pilz.com/en-INT/company/press/messages/articles/249579>

Pilz - The Spirit of Safety

Pilz is a global supplier of products, systems and services for automation technology. As a pioneer of safe automation, Pilz creates safety for human, machine and environment. Founded in 1948, today the family business with its head office in Ostfildern is represented worldwide with 2500 employees in 42 subsidiaries and branches.

The technology leader offers complete automation solutions for Safety and Industrial Security on the machine. These include sensor, control and drive technology - as well as systems for industrial communication, diagnostics and visualisation. An international range of services with consulting, engineering and training completes the portfolio. Pilz solutions are used in many industries beyond mechanical engineering, such as intralogistics, packaging, railway technology, or the robotics sector for example.

Pilz in social networks

In our social media channels we give you background information concerning the company and the people at Pilz, and we report on current developments in Automation Technology.



<https://www.facebook.com/pilzINT>



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