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Press Message

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Hannover Messe 2025: Pilz at Hydrogen + Fuel Cells EUROPE in Hall 13, Stand D34 - How hydrogen becomes a safe bet

Ostfildern, 13.02.2025 - **From production with electrolyzers to the refuelling process at the hydrogen refuelling station: Pilz will be presenting its automation solutions from the fields of Functional Safety and Industrial Security at Hydrogen + Fuel Cells EUROPE. They enable the safe monitoring and control of processes across the whole hydrogen added value chain. The trade fair will take place from 31 March to 4 April 2025 as part of the Hannover Messe.**

Fast, reliable detection of gas leaks, maintaining an overview of pressure, fill level, voltage and current, monitoring combustion processes safely - well-tried automation safety principles can protect hydrogen applications in a way that's particularly economical and intelligent. At Hydrogen + Fuel Cells EUROPE, Pilz will be presenting its solutions for functional safety in the hydrogen industry. The automation company will also be showing how hydrogen applications are protected from manipulation and misuse.

Functional safety for the hydrogen industry

Safety solutions from Pilz help to consider safety always as an overarching monitoring function for components and their functional relationship within the process chain. As such they offer added value for the whole hydrogen added value chain. From electrolysis through to steam reforming - Pilz experts on our stand will explain the different safety-related approaches that are important, depending on the way in which hydrogen is generated. The Pilz small controller PNOZmulti 2 and the automation system PSS 4000 from Pilz safeguard the generation of hydrogen via electrolysis, for example. Also, the automation system PSS 4000 is already proven when it comes to maintaining an overview of all the safety functions on hydrogen refuelling stations - on the cooling system and high-pressure storage tanks, and when dispensing hydrogen.

Holistic approach to Safety and Security

A holistic approach includes not just Functional Safety but also Industrial Security, in other words protection against manipulation and misuse. Industrial Security plays a special role, not least due to the requirements of NIS2 (EU Directive on Network and Information Security) - mandatory since 2024 - and the new Machinery Regulation, which will be mandatory from 2027. From user authentication, data and network security, functionally safe operating mode selection through to access management or electronic maintenance safeguarding: Pilz experts will be available on the stand to advise on the automation expert's tailor-made security solutions.

Pilz experts at the Forum

Safe automation is also a subject of the exhibition's accompanying lecture programme: at the Public Forum, Albert Cot, Market Development Engineer at Pilz, will report on the challenge of implementing Functional Safety and Industrial Security in hydrogen applications. In the Technical Forum, Thomas Braasch, Sales Engineer at Pilz, will go into more detail about the importance of Functional Safety and Industrial Security in the production of hydrogen via electrolysis.

Canada's automation - green, digital and sustainable

Under the motto "The future's here," Canada will be showcasing its industrial strengths in fields such as automation, energy, digital transformation and green technologies. Pilz operates in Canada with a subsidiary in Mississauga, Ontario, and is helping to shape the industrial transformation for a green, digital and sustainable future for Canada.

Pilz at Hydrogen + Fuel Cells EUROPE in Hall 13, Stand D34

- [Further information on safety solutions for the hydrogen industry can be found here online](#)

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 + Fuel Cells EUROPE. (Photo: © Pilz GmbH & Co. KG)

You can find texts and images for downloading at:

<https://www.pilz.com/en-INT/company/press/messages/articles/244399>

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>



<https://www.youtube.com/user/PilzINT>



<https://www.linkedin.com/company/pilz>

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