

Industrial Connectivity for the hydrogen expansion

Weidmüller supports the industrialisation and digitalisation of green hydrogen

Hydrogen is one of the most important technologies of the new, climate-neutral energy landscape. The production of "green" hydrogen with wind or solar energy is a crucial means of CO₂ reduction in the industrial, energy, and transport sectors. To enable rapid and future-oriented growth of the hydrogen sector, improved electrotechnical and electronic concepts are needed.

As a partner in Industrial Connectivity, Weidmüller supports its customers all over the world with products, solutions, and services in the field of energy, signals, and data. Weidmüller is not only one of the leading suppliers in the fields of electronics and electrical connectivity, but also has many years of expertise in wind energy, photovoltaics and the process industry. With this unique range of expertise, the company is in a position to offer the hydrogen industry custom-fit electrotechnical and electrical automation solutions – the Weidmüller arena of "new energy".

Customised solutions for the hydrogen industry

In the hydrogen industry, products from Weidmüller are used along the entire process chain – from generation, storage, and supply to further processing. In this context, the megatrends of industrialisation and digitalisation are supported, which are crucial for the rapidly emerging hydrogen industry.

In the area of industrialisation, Weidmüller supports the use of state-of-the-art production technologies by standardising and modularising electrical installations. Weidmüller's pluggable sensor, data, and power supply solutions contribute to this. In addition, there are pre-assembled function modules for connection and control, which can be supplied ready-to-install in robust steel or stainless steel housings on request. SIL solutions and EX-certified products for analogue and digital applications round off the range. They ensure compliance with safety requirements according to UL and other standards required for worldwide use.

As part of digitalisation, Weidmüller supports a successful, future-oriented value creation while reducing OPEX. To achieve this, solutions are offered for condition monitoring, predictive maintenance, hydrogen plant coordination, and optimisation. Weidmüller's u-mation portfolio includes a complete range of products from controllers and hot-swappable I/O systems to HMI, SCADA and AML software solutions. State-of-the-art Ethernet components facilitate the connection to cloud or on-premises servers. They use industry-typical protocols and services – and they are provided in compliance with current cyber security regulations.

Commitment to more sustainability

Decarbonisation in all energy, mobility and industrial sectors is essential. Hydrogen is a key technology for replacing fossil fuels. Responsible, sustainable action has always been a matter of course for Weidmüller. Therefore, Weidmüller is a founding member of AquaVentus and a member of the European Clean Hydrogen Alliance. The AquaVentus association, an union of research institutes, organisations and companies, aims to advance the technology for producing climate-neutral hydrogen from offshore wind energy. The European Clean Hydrogen Alliance is committed to the successful further development of the European hydrogen strategy and contributes to achieving the goal of climate neutrality set by Germany and the EU.

Quote DB

"If we still want to stop or at least limit climate change, we must act immediately. Hydrogen is a key industry that must be developed as quickly as possible. Our contribution is our knowledge of electronics and electrical engineering, which we will bring to bear with all our strength and passion."

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Caption: Dirk Bauerkämper, Head of Market Management New Energies, is advancing the hydrogen business at Weidmüller
Photo: Weidmüller



Caption: In the hydrogen industry, products from Weidmüller are used along the entire process chain from energy generation to consumption.
Graphic: Weidmüller

Weidmüller – a partner for Industrial Connectivity

The Weidmüller Group has production facilities, sales companies and representatives in more than 80 countries. Together with our customers, we shape the digital transformation – with products, solutions and services for Smart Industrial Connectivity and the Industrial Internet of Things. In the 2021 financial year, Weidmüller generated sales of €960 million with around 5,300 employees.

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