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Press Release

The future of automation – technologies and trends at electronica 2024

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- **Complete automation solutions: from high-precision sensor technology to seamless connectivity**
- **Automation as a driver of the All Electric Society**
- **Innovative startups and industry leaders set new standards at electronica 2024**

Automation is at the heart of modern industries and is driving forward the digital transformation in almost all sectors. electronica 2024, taking place in Munich from November 12 to 15, will present the latest developments in two of its key areas, sensor technology and connectivity. Leading companies and experts will showcase the key trends and technologies paving the way to the All Electric Society, hence promoting energy efficiency and sustainability.

Programmable logic controllers (PLC) play a decisive role in automating production processes. They enable companies to respond flexibly to changes in demand or technology, while at the same time ensuring the quality of the products. Thanks to their robustness, fast response times, and high IT security, those digital systems make a significant contribution to efficiency and safety in industrial applications. For this global industry sector, the analysts from [Mordor Intelligence](#) project an increase from USD 11.75 billion in 2023 to USD 14.46 billion by 2028. Industry forecasts also unanimously predict an annual growth rate of over 10 percent by 2032. Particularly strong growth is expected in the Asia-Pacific region, led by China and India, where extensive investment in factory automation is taking place. Innovative sensor and connectivity solutions, like those presented at electronica, are essential for driving forward the digital transformation of industrial processes.

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Press Release | July 25, 2024 | 2/3

Precise sensor technology for real-time monitoring

Sensors are the backbone of modern automation solutions. They record and process data that is essential for controlling and monitoring machines and systems. Real-time monitoring by sensors leads to optimized operations and higher productivity. At electronica 2024, leading companies such as AMSYS, Omron, STMicroelectronics or Würth will present the latest sensor technologies which enable precise measurements and increase efficiency and safety in industrial applications.

Seamless integration through advanced connectivity

Modern connectivity solutions are crucial for seamlessly integrating automation systems. In addition to a wide range of wireless standards and protocols, Industrial Ethernet is a key technology that enables real-time communication and end-to-end networking right down to field level. Single Pair Ethernet (SPE) offers compact solutions that transmit energy as well as data, thereby increasing efficiency in industrial applications. Corresponding products and technologies that ensure reliable and efficient communication between machines and control systems will be on show at electronica 2024, among others from exhibitors like 3M, Harting, Phoenix Contact, Wago or Weidmüller.

electronica 2024: a must for automation visionaries

Automation plays a central role in the vision of an All Electric Society. By integrating intelligent systems and energy-efficient processes, it helps optimize energy consumption and promote sustainable technologies. Under this year's motto "Leading the way to the All Electric Society", electronica 2024 will showcase corresponding solutions such as intelligent energy management systems that support the transition to a sustainable future. Visitors can look forward to a host of innovations from well-known exhibitors that will shape the future of automation, including for example Delta, Murata, Toshiba or Vishay. In addition, startups with agile mindsets and innovative ideas are breathing new life into the industry.

Press Release | July 25, 2024 | 3/3

In the supporting program, the [Embedded Platforms Forum](#) on November 12 and 13, and the [Industrial Control Forum](#) on November 14 (Hall C5), in particular, will be an indispensable meeting place for all players in the industry, from developers and product managers to device and system manufacturers. Here they can find out about the latest developments in the field of automation, connectivity and sensor technology, share expertise, and expand their network.

You can find this press release for download including press pictures at the [electronica newsroom](#).

About electronica

electronica is the most important international meeting place for the electronics industry. As the world's leading trade fair, it presents the entire spectrum of technologies, products and solutions in electronics and brings together experts and users from all over the world. The extensive supporting program with top-class conferences and practice-oriented forums provides deep insights into the latest trends from research to application and addresses current social issues. The next electronica will take place from November 12 to 15, 2024 at the Messe München Exhibition Center.

electronica worldwide

In addition to electronica, Messe München organizes electronica China, electronica South China, electronica India, the SmartCards Expo and electronicAsia. The network of electronics trade fairs also includes productronica in Munich, productronica China, productronica South China, productronica India and LOPEC.

Messe München

As one of the world's leading trade fair organizers, Messe München presents the world of tomorrow at about 90 trade fairs worldwide. These include eleven of the world's leading trade fairs such as bauma, BAU, IFAT, electronica, and ISPO. Messe München's portfolio comprises trade fairs for capital and consumer goods, as well as for new technologies. Together with its subsidiaries, it organizes trade fairs in China, India, Brazil, South Africa, Turkey, Singapore, Vietnam, Hong Kong, Thailand, and the U.S. With a network of more than 15 affiliated companies and almost 70 representations worldwide, Messe München is active in more than 130 countries. The more than 150 events held annually attract around 50,000 exhibitors and around three million visitors in Germany and abroad.