

Single Pair Ethernet: Endress+Hauser teams up for the future of automation

Joining forces with the SPE alliance means committing to customer benefits

Endress+Hauser, a global leader in measurement instrumentation, services and solutions for industrial process engineering, is proud to announce its partnership with the Single Pair Ethernet System Alliance. This strategic alliance underscores the company's commitment to simplifying our customers' digitalization needs and investing in the future of automation.

What is the role of Single Pair Ethernet (SPE) in automation?

SPE is a game-changer, especially for the food & beverage and life sciences industries. In highly automated process environments without extensive hazardous protection, SPE delivers a variety of benefits: it realizes the advantages of an Ethernet connection – such as the high speed and volume of transmitted data – at field level with a simple two-wire cable, which transmits both data and energy. The commissioning process is simplified with easy wiring and connectivity.

Moreover, the automation pyramid is flattened as other systems can now connect via Ethernet at field level, fostering seamless integration and interoperability. Data from smart instruments in the field can be processed in upper layer applications. This results in optimized machine design, connectedness and improved overall equipment effectiveness (OEE). For this reason, SPE proves its worth as an open, cost-efficient and future-proof technology that is ready for the Industrial Internet of Things (IIoT).

Joining forces increases customer value

Endress+Hauser is dedicated to easing the digitalization journey for its customers. By joining the Single Pair Ethernet System Alliance, the company is demonstrating its trust in the members that are committed to shaping the future of automation together. Customers benefit from interoperability by driving business with the members of the SPE System Alliance. Close to 75 members are creating the largest ecosystem of SPE products, creating freedom of choice for customers. Endress+Hauser's entrance into the partnership opens the door for sharing knowledge and expertise to deliver superior solutions.

Prospective product portfolio

To offer customers the chance to grow their digitalization capabilities and realize all the benefits of SPE, Endress+Hauser is now working on its portfolio of field devices with SPE. A clear goal is to create a harmonized approach, comparable to the manufacturer's Ethernet-APL devices. The comparison with Ethernet-APL – another industrial Ethernet technology – shows that a uniform connectivity and certification concept is essential, whether for hazardous or non-hazardous areas. This gives customers across diverse industries more flexibility to profit from the benefits of a well-functioning data highway.

Find out more about the [Single Pair Ethernet System Alliance \(singlepairethernet.com\)](https://singlepairethernet.com).



EH_Single Pair Ethernet_1.jpg

Thanks to the exceptional data connection that Ethernet technology offers, large volumes of data are processed quickly at field level.



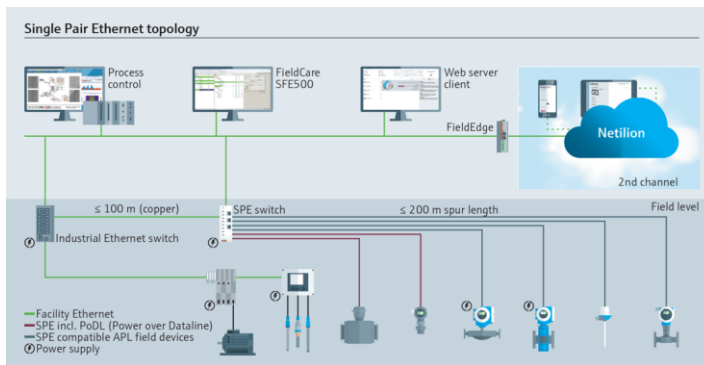
EH_Single Pair Ethernet_2.jpg

Single Pair Ethernet allows a bandwidth and speed that lifts field data transmission to a completely new level. Maintenance and plant managers benefit from new insights.



EH_Single Pair Ethernet_3.jpg

With a speedy data connection that Single Pair Ethernet realizes, new ways of operating a process and maintaining a facility become possible – with the target of increasing process reliability and plant availability.



EH_Single Pair Ethernet_4.jpg

The classic automation pyramid is flattened by the direct connections that Single Pair Ethernet makes possible. Endress+Hauser is planning to deliver a matching product portfolio for measuring instrumentation.

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement and automation technology for process and laboratory applications. The family company, headquartered in Reinach, Switzerland, achieved net sales of more than 3.7 billion euros in 2023 with a total workforce of almost 17,000.

Endress+Hauser devices, solutions and services are at home in many industries. Customers thus use them to gain valuable knowledge from their applications. This enables them to improve their products, work economically and at the same time protect people and the environment.

Endress+Hauser is a reliable partner worldwide. Its own sales companies in more than 50 countries as well as representatives in another 70 countries ensure competent support. Production facilities on four continents manufacture quickly and flexibly to the highest quality standards.

Endress+Hauser was founded in 1953 by Georg H Endress and Ludwig Hauser. Ever since, the company has been pushing ahead with the development and use of innovative technologies, now helping to shape the industry's digital transformation. 8,900 patents and applications protect the Group's intellectual property.

For further information, please visit www.endress.com/media-center or www.endress.com

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