PRESS RELEASE

SYMEO at SPS 2024

Safety based on radar

Neubiberg, October 10, 2024 – Symeo exhibits at the SPS being held November 12 to 14 in Nuremberg, Germany. Booth 406 in Hall 7A of the leading automation trade fair features four thematic areas. The maintenance-free radar sensors are presented with a demonstrator that shows the superiority of industrial radar technology in adverse weather conditions. The second area is dedicated to radar chips for customers who develop their own radar-based scenarios. The trade fair highlights include the presentation of the HD Imaging Radar concept and the LPR-SAFE, a system for functional safety in distance measurement in accordance with ISO 13849.

Symeo’s LPR-SAFE is also presented with a demonstrator. The system consists of a secure function block for a PLC that compares the results of two redundant pairs of radar sensors operating in secondary radar mode. This enables precise measurement of distances for functional safety, for example in connection with crane systems. LPR-SAFE can be equipped with four LPR‑1DHP‑291 radar sensors for a range of up to 300 meters or with four LPR‑1D24 sensors for a range of up to 1,000 meters. Once certifications are completed, the system is expected to be available in mid-2025.

New development

The second of Symeo’s SPS highlights is a concept for which the company wants to attract development and application partners. The HD Imaging Radar developed by Symeo combines the failure safety of radar sensors with the high resolution of laser scanners. After six years of intensive research, the technology is ready to be implemented in concrete products. Potential application areas include monitoring tasks in dusty or steamy industrial and storage environments. The use of HD Imaging Radar on trains is also under discussion. In conjunction with intelligent data analysis – using artificial intelligence, for example – the radar system would then become a virtual track inspector.

“At this year’s SPS we are positioning ourselves as a one-stop shop for industrial radar technology because we are a leading supplier of proven products and innovative systems as well as a development partner and manufacturer of everything from individual modules to complete white-label products,” says Thomas Hörl-Weinhold, VP Industry Business Development at Symeo.

**Available image material**

The following printable images are available for download on the Internet:
<https://kk.htcm.de/press-releases/symeo/>

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| Image source: Symeo**How LPR-SAFE works: A safe distance value is determined by comparing two measured values in the function block.** |

**Symeo**

Symeo develops and markets products and solutions for precise, non-contact, maintenance-free position detection, distance measurement, and collision avoidance. Symeo’s products feature extremely robust designs to make them suitable for applications in harsh industrial environments.

Symeo’s LPR® locating technology offers a wireless and real-time-capable measuring system that is ideally suited for industrial applications. Symeo has many years of experience in the development of cost-efficient and customer-specific industrial solutions on the basis of LPR® technology.

The company delivers standardized products and complete solutions to system integrators, original equipment manufacturers (OEMs), and end customers worldwide.

Headquarters: Symeo GmbH, Prof.-Messerschmitt-Strasse 3 a, 85579 Neubiberg, Germany
Phone: (+49-89) 6607-7960, Fax: (+49-89) 66077-96190
E-mail: info@symeo.com, Website: [www.symeo.com](https://www.symeo.com/en/home/index.html)

**Press contact:**

HighTech communications GmbH
Marcus Planckh
Brunhamstrasse 21 (Building 202/2nd floor)
81249 Munich
Germany

Phone: (+49-89) 500-77822
E-mail: m.planckh@htcm.de
Website: www.htcm.de