Press Release

Symeo radar sensors at IFAT 2024

Sensor technology for automated processing

Neubiberg, April 10, 2024 – Symeo presents sensor technology for process monitoring and automation at IFAT 2024. Hall C1 at the Munich Trade Fair Center (Messe München) will be dedicated to measurement and control technology as well as laboratory technology during the world’s leading trade fair for water, sewage, waste and raw materials management. Symeo will be presenting solutions that replace more vulnerable sensor systems with radar-based technology at stand C1.532 from May 13 to 17, 2024, featuring two sensor systems and a demonstrator. Sensors using light or ultrasound are especially prone to failure under harsh operating conditions. Symeo’s sensors, on the other hand, are based on patented LPR® (Local Positioning Radar) technology and are fail-safe and maintenance-free even under the most adverse conditions.

With a measuring accuracy in the millimeter range, industrial radar systems with integrated directional antenna are suitable for applications in the areas of crane positioning, collision avoidance, goods tracking, process monitoring and automation, the detection of objects and fill levels, or as radar barriers. The great advantage of the technology is that the radar sensors are extremely robust, completely maintenance-free, and work with absolute reliability even in the presence of dirt, extreme dust, vibrations, high levels of sunlight, steam, fog, or precipitation. This characteristic will be illustrated at the IFAT stand with a demonstrator that features a sensor measuring the distance to a moving reflector through boxes in which, for example, rain or a snowstorm are simulated.

**Radar ignores pollutants**

The LPR-1DHP-350 on display at IFAT is primarily intended as a replacement for ultrasonic and laser sensors in areas where they would be too sensitive to environmental conditions. With dimensions of just 90 x 90 x 35 mm, the compact LPR-1DHP-350 with an integrated directional antenna opens up new areas of application for industrial radar technology. In sewage treatment applications, for example, it can be used to measure the presence and approach of objects or changes in fill levels.

To determine and/or safeguard the position of gantry cranes or other heavy lifting and conveying equipment, Symeo recommends the use of the LPR-1DHP-291, a robust, maintenance-free and wear-free sensor system for the precise real-time measurement of distances up to 300 meters with two sensors and up to 500 meters in combination with multiple sensors. With a single sensor, the measuring range is typically 1 to 50 meters with an accuracy of ±5 mm in 2 GHz bandwidth mode at a measuring rate of 350 Hz. The high sampling rate makes the system suitable for dynamic monitoring tasks.

**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**The LPR-1DHP-350 radar sensor from Symeo can replace vulnerable ultrasonic and laser sensors.** |

**Symeo GmbH**

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

Symeo GmbH’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.

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