

PRESS RELEASE

Smart Factory Sensor – Customized Machine Learning Sensors from Quantity 1

SSV now also offers task-specific industrial sensors for machine learning applications in the Smart Factory in the quantity of 1 with the help of a modular system

Hanover, January 2021. Sensor data for Smart Factory digitalization tasks require significantly higher-quality informational content than, for example, in classic flow control applications. Through a selection of sensor elements suitable for the task, sensor fusions for linking different measured values and AI algorithms, the raw sensor data in the SSV sensor solutions become valuable information that can be used for various tasks in process optimization, machine and plant maintenance as well as intralogistics.

With the Smart Factory sensor product family based on a modular system, SSV now offers retrofit sensors with an application-specific data output. For this purpose, the housing, sensor elements, signal processing, power supply as well as the data and configuration interface are adapted to the task. A support docker with various functions adapted to the respective sensor is supplied as an accessory for each sensor. In addition to Node-RED functions, these include a TensorFlow Lite interference interpreter for real-time analysis of the sensor data using previously trained neural networks to create the desired information for transfer to higher-level systems, such as an MES.

In line with the topic, SSV will be hosting the --> webinar “IoT wireless sensor technology for machine learning applications” during the SENSOR+TEST 2021 on May 6 from 11:00 a.m. to 12:00 p.m. (Register here...). It will focus on the technical aspects of sensor data processing and information retrieval with artificial neural networks.

After the webinar, there will be the chance to participate in an interactive hands-on experience with virtual guidance, where each participant can preprocess live sensor data via Google Colab on their own computer and analyze it with TensorFlow..

The SSV Software Systems GmbH:

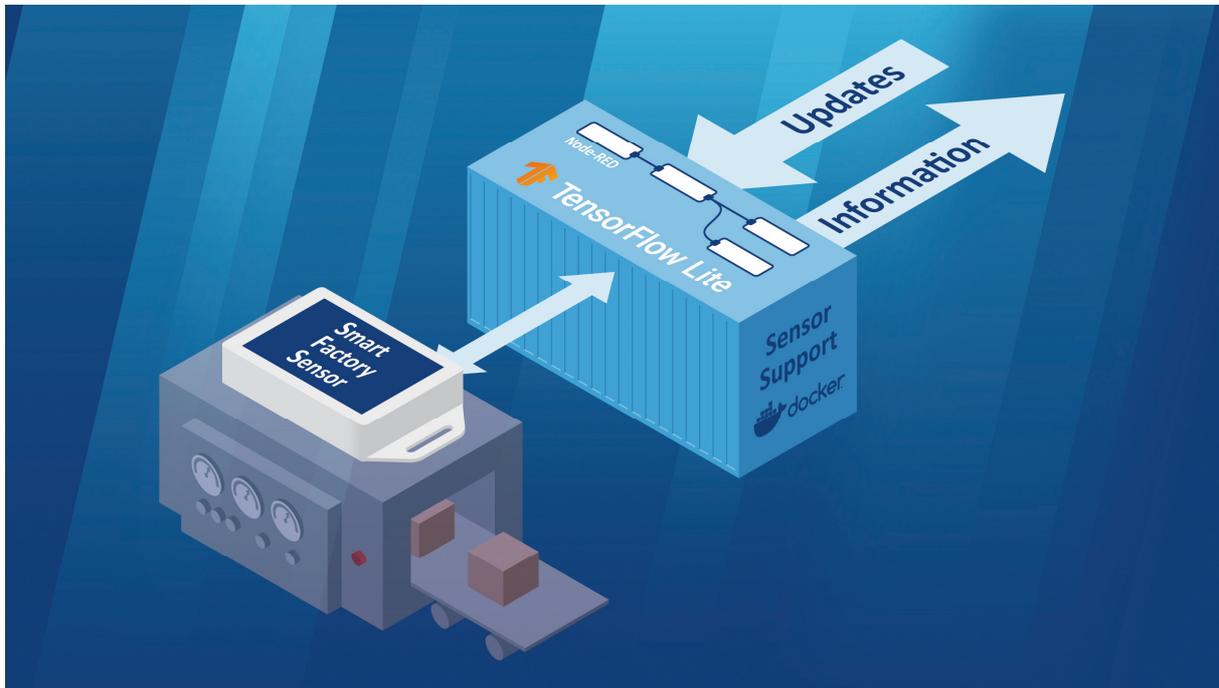
The SSV Software Systems GmbH was founded in Hanover in 1981 as a development service provider for microprocessor applications in logistics and automation. Since the beginning of the 1990s, the company has been developing and producing its own hardware modules and systems for industrial use. The application focus is in the area of industrial M2M and IoT communication. The latest developments include complete solution modules for real-time data analysis via machine learning, complete wireless sensor network applications for predictive maintenance and condition-based monitoring, a soft sensor engineering process and remote maintenance gateways with various functions and communication interfaces.

For further questions please refer to:

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You can find the corresponding images for this press release on our website www.ssv-embedded.de.

Image material:**Image Caption:**

With the new Smart Factory sensor product family, SSV offers individually tailored solutions, starting from a quantity of 1, to generate raw sensor data into valuable information for higher-level systems such as an MES. Housing, sensor elements, signal processing, power supply as well as the data and configuration interface are adapted accordingly. Each sensor is also supplied with a support docker that contains function blocks tailored to the respective sensor.