

Press release

Heinsdorfergrund

13.02.2018

SYS TEC electronic is expanding its own electronics production to include Internet of Things applications with in-house devices, further expanding the demo range.

The premium electronics service provider from Saxony, SYS TEC electronic, has developed a new IoT application for production facilities and successfully implemented it in its own electronics production. As a result, customers and partners have the opportunity to monitor their production, to recognize possible failures at an early stage and to be able to act fast.

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Production processes are linked together in the age of Internet of Things via intelligent individual components. The SYS TEC electronic IoT complete package enables the retrofitting of existing machines and raises them to the Industry 4.0 level. As a result, maintenance intervals in the sense of predictive maintenance and condition monitoring can be optimized and costs can be saved. In practical terms, the production manager has an overview of all important processes, is informed about errors (for example temperature drop or loss of moisture) via the early warning system and is able to act promptly. In addition, machine signals and power consumption can be monitored. Especially the latter allows the lowering and smoothing of peaks (peak shaving) and thus a reduction of costs.

Among other things, using sensor beacons and asset tracking beacons, a variable, intelligent network is built up that manages with smallest amounts of data and sends them to the gateway. The special thing here is the use of the own hardware of SYS TEC electronic. Using the in-house control sysWORXX CTR-100 and CTR-700, which act as controllers with gateway function, the data of the beacons can be recorded, further processed and sent. The visualization of the data is done Node-RED.

SYS TEC electronic GmbH is an electronics service provider based in Saxony. The company's main focus is the bespoke development and production of custom electronic solutions. 26 years of experience in a wide variety of industries – from the transportation industry, through industrial communication, to automation – have been coupled with current needs in the electronic market. The result is an easy-to-integrate IoT Chip for use in Internet of Things/Industry 4.0 applications and connecting devices/machines to the cloud as these fields require.

Words: 367

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