SIEMENS

Digital Enterprise Virtual Experience at Hannover Messe 2021

New Smart Condition Monitoring solution with IIoT sensors for industrial plants

- **Monitoring of machine conditions with IIoT sensors, gateway and app**
- **Multisensor transmits vibration and temperature data via Bluetooth to an industry gateway and on to the cloud**
- **System detects potential incidents through machine learning**

Siemens is presenting Sitrans SCM IQ, a new Industrial Internet of Things (IIoT) solution for Smart Condition Monitoring, at the Hannover Messe 2021. It enables potential incidents to be detected and prevented at an early stage, thus reducing maintenance costs and downtimes, and increasing plant performance by up to ten percent. The wireless, robust Sitrans MS200 multisensors form the hardware basis for installation on machinery such as pumps, gear units, compressors, and drive trains, where they collect vibration and temperature data. Via a Bluetooth connection, this data is sent to the Sitrans CC220 industry gateway where it is encrypted before being transmitted from there to the cloud, in this case the MindSphere industrial IoT-as-a-Service solution. The anomaly detection of the Sitrans SCM IQ system is based on machine learning. It constantly monitors and analyzes all sensor values and detects deviations from the normal operating state in advance. Anomaly notifications are sent via SMS and/or email, depending on the configuration and defined user group. The app can be used to document the anomalies of machinery behavior and makes them available to a specific circle of users. The Sitrans SCM IQ system comprises multisensors, gateway and app, and can be used in all industrial plants with mechanical or rotating components. It is scheduled to be available from summer 2021.

The Sitrans MS200 multisensors feature a robust and compact industrial design with a high IP68 degree of protection. Bluetooth communication eliminates the need for

cabling, which greatly simplifies installation and commissioning. The power supply is provided by replaceable industrial batteries, enabling a long service life. The Sitrans CC220 industry gateway ensures secure communication between the multisensor and the cloud. It is suitable for cabinet installation and has an external Bluetooth antenna. The high sample rate transmission enables accurate and reliable data analysis. The Sitrans SCM IQ mobile web application displays the states of the monitored systems and components graphically, anywhere, and anytime. Sitrans SCM IQ is scalable, which means that it can either be dedicated to monitoring a single application or all the machines in the plant.

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This press release and a press photo are available at https://sie.ag/2RkPrMq

You can find additional information on Sitrans SCM IQ at www.siemens.com/scmiq

More information about the Siemens Digital Enterprise Virtual Experience at Hannover Messe 2021 is available at www.siemens.com/press/hm21

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