SIEMENS
Ingenuity for life

SITRANS SCM IQ

Smart Condition Monitoring with IIoT Sensors

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Smart Conditioning Monitoring for Your Machinery

How to Prevent Downtime – Before It Occurs

Knowing the condition of the mechanical assets in your process plant at all times gives you a clear advantage, because you can identify imminent device failures in good time and plan your maintenance activities better. That's precisely what makes our IIoT solution for Smart Condition Monitoring – SITRANS SCM IQ – so valuable.

SITRANS MS200

IIoT Starts at the Field Level

The hardware on which SITRANS SCM IQ is based are wireless, robust Industrial Internet of Things (IIoT) sensors or more precisely: SITRANS MS200 multisensors. They're easy to install on mechanical plant assets such as pumps, gearboxes, and compressors, where they gather important information on vibrations and temperature. This data is then analyzed using artificial intelligence (AI).

SITRANS CC220

Securely from the Sensor to the Cloud

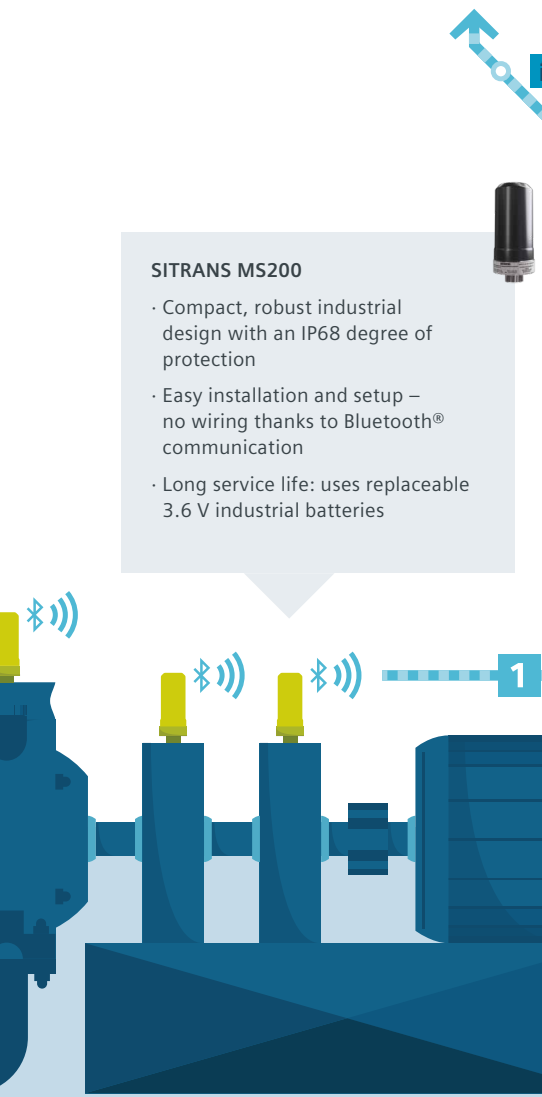
The entire data transfer process from the multisensors is protected and secure. The data gathered by the sensors is transmitted using a Bluetooth® connection to the SITRANS CC220 Cloud gateway. This then encrypts and transfers the data to MindSphere, the leading IoT platform from Siemens, into which you can also integrate existing systems thanks to its open structure.

SITRANS SCM IQ APP

Condition Information at Any Time

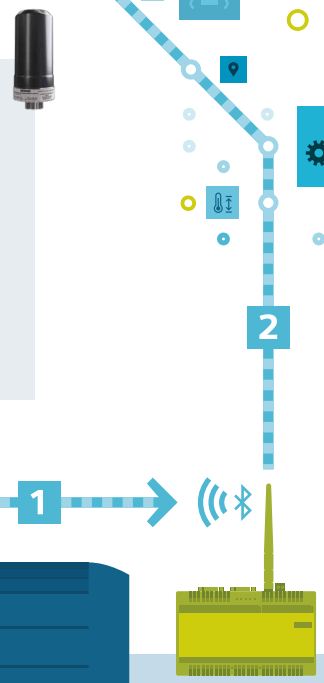
Using the SITRANS SCM IQ mobile web application, you can see the condition of the machines or systems you're monitoring from anywhere, 24-7. The system is intuitive to use. It detects and reports any deviations from the intended operating state at an early stage. The resulting added value is huge: you can initiate maintenance measures and react before impending equipment failures occur.

MindSphere



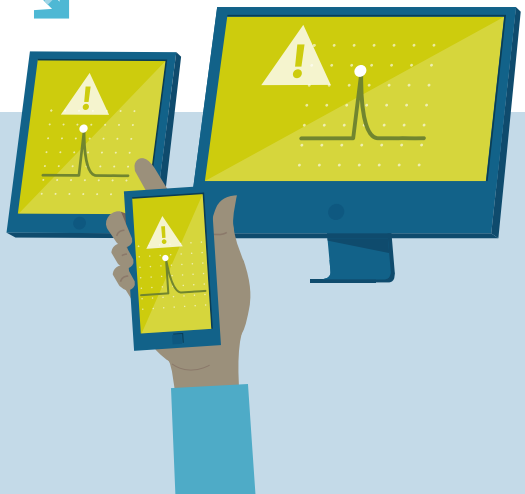
SITRANS MS200

- Compact, robust industrial design with an IP68 degree of protection
- Easy installation and setup – no wiring thanks to Bluetooth® communication
- Long service life: uses replaceable 3.6 V industrial batteries



SITRANS CC220 (Cloud Connect)

- Cloud gateway: connector for secure, encrypted communication between SITRANS MS200 and MindSphere
- Industry-standard control panel installation with extendable external Bluetooth® antenna
- High sampling rate and reliable data transmission

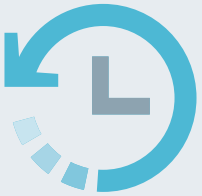


SITRANS SCM IQ App

- Anomaly detection based on machine learning, which can be used for all kinds of assets
- Detailed monitoring and presentation of sensor values and diagnostic data
- Configurable SMS and email notifications with definable user groups
- Administration and documentation of anomalies and machine outages for immediate distribution within your team

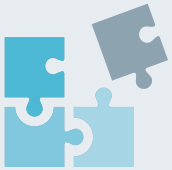
All Benefits at a Glance

Low investment and operating costs



Easy installation and fast commissioning

Increased plant performance by avoiding unplanned downtime



Secure, open ecosystem; quickly adaptable to new business challenges (not a stand-alone solution)

Optimized, event-driven maintenance management

System scalability from very small installations to extensive plant monitoring

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