Reliable exhaust air systems thanks to IIoT and RTM

Real-time maintenance of the exhaust air system of paint shops with IIoT connection ensures increased occupational safety

Our customer:
A leading automotive manufacturer

The company produces a wide range of vehicle types, including SUVs and other passenger cars as well as commercial vehicles. It is renowned worldwide and stands for reliability, fuel efficiency and innovative strength. With a global production network and millions of vehicles sold, it is also one of the largest automotive groups in the world.

A particular focus is on the development of environmentally friendly technologies such as hydrogen and hybrid drives.

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The challenge:

Sustainability is becoming increasingly important in the automotive industry. Not only the impact of greenhouse gases on the environment, but also the handling of various gases in the production process is a major concern. For example, harmful gases are produced during the painting process. These are extracted from the paint booth using exhaust air fans to increase employee safety.

To ensure a safe working environment, a condition-based monitoring system consisting of IO-Link masters, vibration diagnostics and temperature sensors from ifm has been in use for a long time. It checks the function of the exhaust air fans and transmits the information via an IIoT system so that it can be evaluated centrally.

The previous IIoT system was not particularly user-friendly when it came to entering, checking and correcting data during maintenance work. Therefore, the maintenance team, in collaboration with an IIoT team, set out to find a simpler solution.
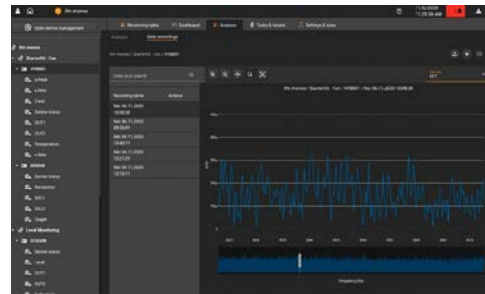

The solution – why ifm?

The use of ifm's **moneo** IIoT platform and QM9120 RTM package since 2022 has led to significant improvements in the visualisation, review and correction of data. This significantly increased user-friendliness and thus improved usability.

Thanks to **moneo**'s scalable concept, the customer was able to test it on one system first and then roll it out to all other systems with the same specifications without any problems. In the future, new applications will also be connected to the platform to benefit from it.

Results:

- Easy visualisation, review and correction of data
- Remote access via the **moneo** IIoT platform
- Predictive maintenance

Faster correction of data

Remote access

Predictive maintenance

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