Tablet-based visual inspection

IVG Göhringer has completed its range of monitoring tools for industrial bus systems. An app supports the visual inspection of Profibus, Interbus, CAN and AS-Interface networks. Various quick testers for PROFIBUS, CAN and AS-Interface continuously detect and report errors at protocol level, allowing a deterioration in bus communication to be recognised early on.

At the lowest level of production, fieldbus systems and networks such as Profinet, Profibus, CAN and AS-Interface ensure the exchange of information between sensors, actuators and system controllers. To prevent faults and failures in bus communication, two principal types of errors must be considered: installation errors and ageing effects.

Resolving installation errors

Continuous status monitoring has proved to be an effective method for the early detection of damage and ageing effects in bus systems. For this to work, installation errors must be resolved. These are faults that occurred when the bus system was installed or extended, for example because shielding was not connected or terminating resistors were incorrectly wired.

Guided visual check

Most of these errors can be spotted with a visual check. To assist with this, IVG Göhringer has developed a software-based process. The IVGNetApp guides the user through a structured, carefully designed process to help them proceed systematically.

Free app

The IVGNetApp is available for Profibus, Interbus, CAN and AS-Interface and is designed to accommodate the differences between individual bus systems. It will be available for free on Google Play from the first quarter of 2016. With the aid of a tablet and the app, operators can carry out a guided visual inspection and fix errors independently.

Expert evaluation on request

IVG Göhringer also offers a chargeable evaluation based on the recorded data as an optional service. This includes a detailed evaluation with advice and expert troubleshooting tips.

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Tablet-based visual inspection and long-term monitoring with quick tester

Quick tester P-QT 10 for Profibus

The plug-in diagnosis unit P-QT 10 can be plugged into any Profibus slave, where it will continuously monitor data traffic for typical communication errors. Errors are indicated by the integrated LEDs and reported to higher-level systems by a potential-free alarm contact.

The P-QT 10 detects and reports

- Faulty telegrams
- Frame repetitions
- Device-specific diagnostic messages
- Start-up suppression of diagnostic messages
- shown or hidden diagnostic messages

Quick tester C-QT 15 for CAN

The CAN quick tester C-QT 15 in the form of a D-Sub 9 fieldbus plug provides logical monitoring of CAN bus systems and is integrated into the existing, operating system on a plug-and-play basis. There it automatically detects the baud rate and automatically starts to analyse all bus traffic.

User-definable trigger criteria:

- Bus load
- Number of faulty telegrams / error frames
- ID and content of transferred telegrams
- Configurable trigger criteria

Visit our Youtube channel and watch our instructional videos on bus system maintenance.

Quick tester A-QT 15 for AS-Interface

The AS-Interface diagnostic device A-QT 15 is a passive slave on the AS-Interface fieldbus system without its own address. It corresponds to specification V3.0. The diagnostic device monitors data traffic on the network and activates a relay contact for 1 second at a time if it detects a communication error.

The device detects and reports the following errors:

- Nominal cycle time of the network exceeded
- Frame repetitions
- Configuration errors
- Earth fault