Condition monitoring solutions

Initial situation
Machine availability is a critical success factor for manufacturing companies, especially in industries where processes have to run continuously or where unscheduled maintenance tasks can only be carried out with a great deal of time and effort. Unscheduled downtimes are costly: indeed, breakdowns in steel production facilities or offshore wind turbines quickly lead to six-figure costs.

Solution
With condition monitoring solutions, Weidmüller is specifically endeavouring to identify and rectify any errors at an early stage. The customer’s responsiveness is increased and expensive downtimes are thus reduced to an absolute minimum.

With regard to predictive maintenance, Weidmüller offers solutions that will ensure machinery is maintained in a proactive manner. It is complementing these with customer-friendly solutions for reliable remote maintenance. The products used include communication-capable signal converters such as the ACT20, as well as routers and switches. Using these products, maintaining and monitoring critical variables based on particular conditions and identifying any anomalies is a doddle. The digitalisation and networking of process and condition data – with the u-remote remote I/O system, for example – forms the basis of this. Combined with the u-Link remote maintenance solution, the customer can also access systems distributed around the globe – from any location.

Benefits at a glance
• Condition-based monitoring increases process reliability.
• Costs are reduced; delivery reliability is increased.
• Reliable remote access means simple maintenance routines can be performed at any time.
• Data analytics is used in a next step to optimize maintenance in the long term.