

ProLink CMS: Systematic Condition Monitoring

Versatile, modular, and easy to interlink

The ProLink multi-channel condition monitoring system monitors the condition of machines and equipment by means of vibration measurement. It is optimally suited to machine monitoring in complex systems such as those found in the paper and cement industries. Thanks to separate sensors, the ProLink condition monitoring system is ideal for use in harsh environmental conditions.

Product advantages

- Simple initial operation thanks to the automatic monitoring configuration for standard units such as motors, fans, and pumps
- Configuration, trend displays, and initial analyses take place directly on the device using the integrated web server and a standard web browser
- A great variety of options for integration into the customer's infrastructure using digital interfaces (e. g. OPC/UA) and a modular field bus module; this allows the highest possible level of transparency by providing all measured information about the machines' condition, e. g. for the customer's own plant visualization, maintenance planning system, and quality assurance



Paper industry



Metal production and processing



Cement industry

Potential applications and fields of operation

- Paper industry
- Metal production and processing
- Cement industry

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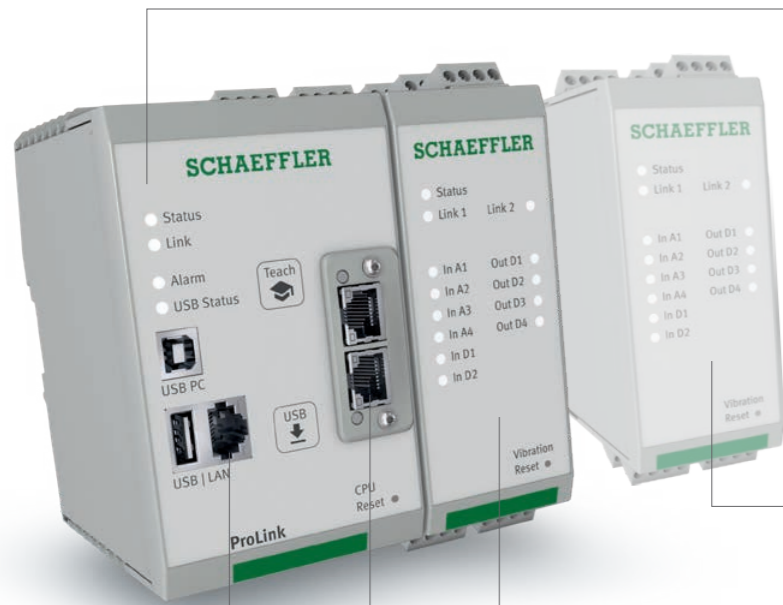
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ProLink CMS
 Systematic condition monitoring



Modules and Functions

ProLink condition monitoring system



SmartWeb
 • Configuration assistant
 • Automatic learning mode

Additional modules
 ProLink can be individually expanded to include additional measurement modules for a range of different applications (in the planning phase)

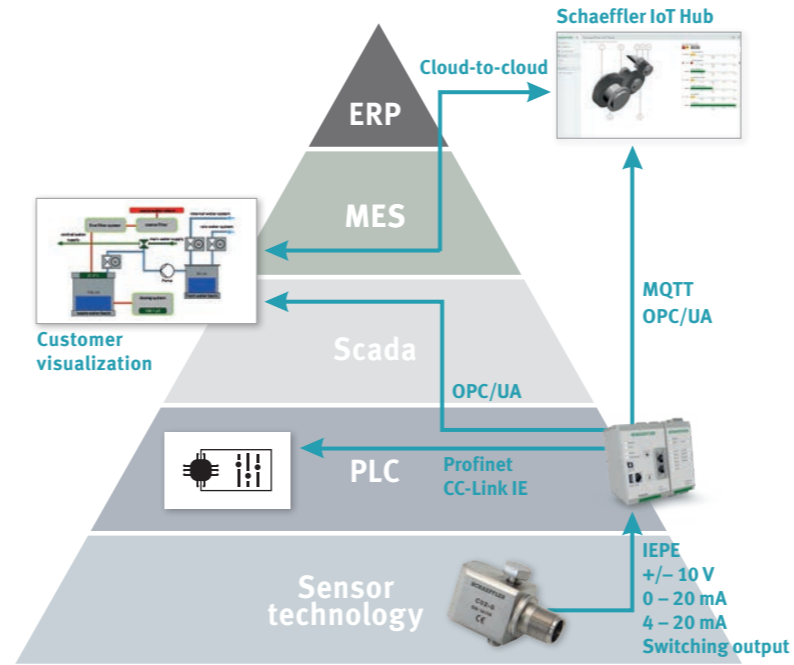
Vibration module with recording of speed data
 Extremely high signal quality (24 bit), high-quality signal processing

Field bus connection
 In the planning phase:
 Profinet and CC-Link IE
 Field

Cloud communication
 Ethernet, OPC/UA, MQTT,
 web services

Unique Connectivity

All information available everywhere



Added Value Through Digitalization and Digital Services

Enhance availability and increase productivity

Schaeffler offers a standardized hardware and software infrastructure – from components equipped with sensors through to digital services. One component is the ProLink condition monitoring system. This offers the perfect setup in combination with the ConditionAnalyzer – the automatic vibration diagnosis system.

Advantages of the ProLink condition monitoring system

- Templates for monitoring rolling bearings, motors, gearboxes, fans, and pumps that make further configuration easier; information about the machine geometry (such as the installed bearing type or the number of fan blades) is all that is required
- The learning mode allows individual adjustments to alarm thresholds in order to optimize monitoring
- Customers can optionally use the ConditionAnalyzer via the integrated cloud interface



Additional advantages of the ConditionAnalyzer digital service



- Schaeffler's ConditionAnalyzer makes it easy for maintenance technicians to monitor all of their machines and bearings
- This digital service automatically analyzes the vibration data measured by sensors and provides a timely warning before bearing damage occurs
- This cloud service can be integrated into an existing IoT platform using a REST API interface, providing simple recommended actions