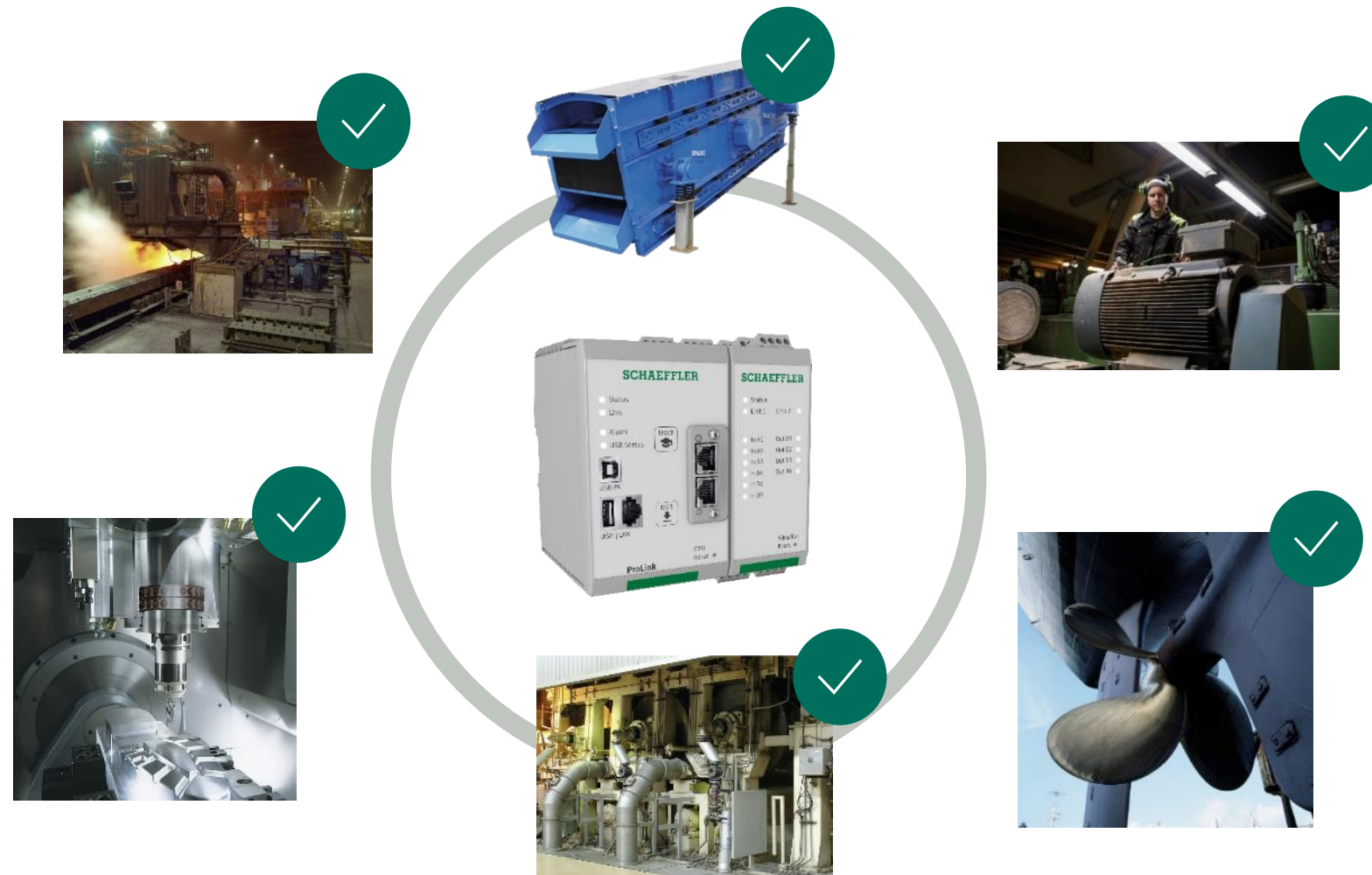




ProLink – Condition Monitoring System

Schaeffler ProLink Condition Monitoring System



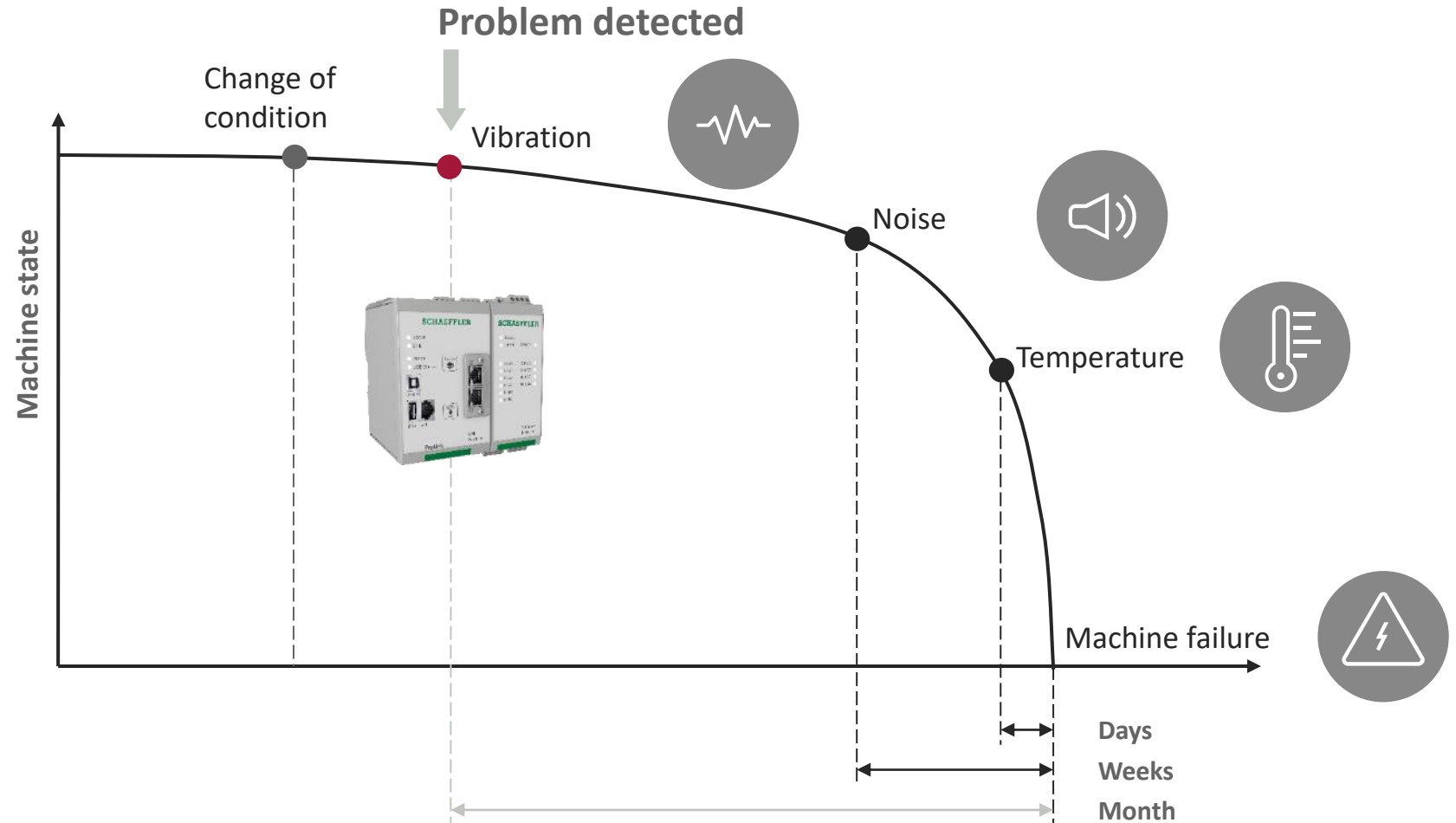
- Modular
- Multiple interfaces for cloud communication
- Universal application
- Easy to use
- Perfect integration into customers infrastructure

Agenda

- 1 Condition Monitoring**
- 2 ProLink Condition Monitoring System
- 3 Areas of application
- 4 ProLink System integration
- 5 Advantages
- 6 Services
- 7 Further Information

Why Condition Monitoring?

- Increased availability/ prevention of unplanned downtime
- Planning of service and maintenance is improved
- Subsequent damages are avoided, reduction of maintenance costs
- Analysis of the damage root cause is supported



Simple application example

- Sawmill Kåge in Sweden
- Annual production Capacity approx. 240,000 m³ of sawn timber
- 81 employees
- Monitoring of main electric motors

Downtime costs per hour:	2.800€
4 hours downtime of asset:	11.200€
Total:	11.200€
Amortization period:	one unplanned downtime

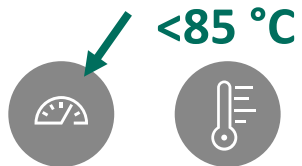


More examples: [Link](#)

Product portfolio Schaeffler Condition Monitoring Devices

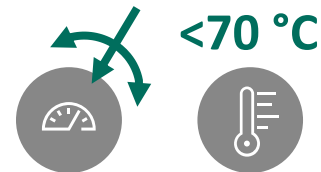
OPTIME

The next generation of condition monitoring: affordable, easy to install and scale up



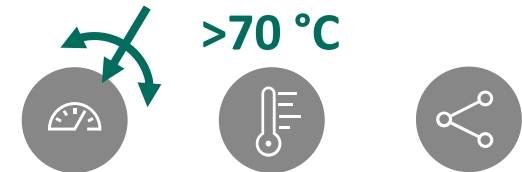
SmartCheck

Sophisticated, one-channel condition monitoring system with intelligent learning mode and integrated web server



ProLink CMS

Modular multi-channel condition monitoring system for vibrations and other parameters with extended connectivity



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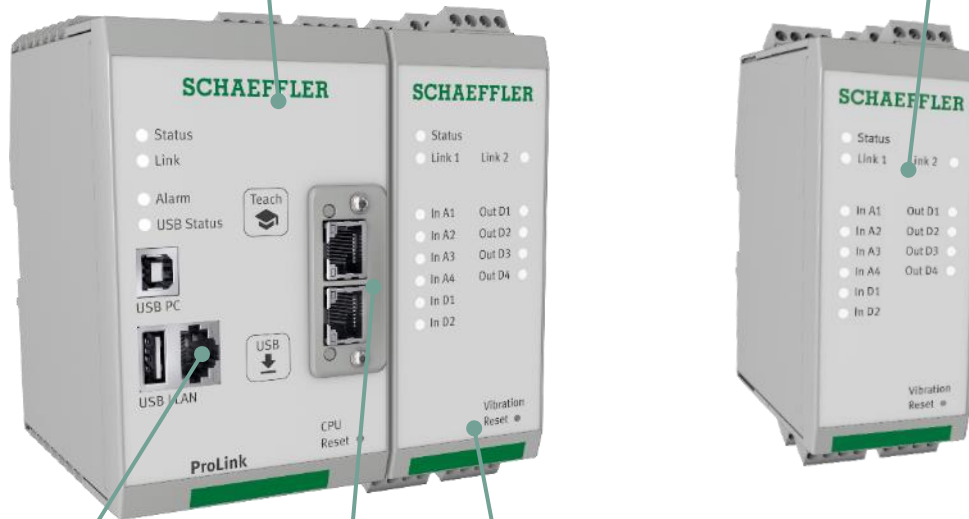
In a nutshell

SmartWeb

- Configuration assistant
- Automatic learning mode

Additional modules

- individually expanded with additional measurement modules



Cloud-Communication

- Ethernet
- OPC/UA Server, MQTT, Webservices

Field bus connection*

- Profinet,
- CC-Link IE,
- ...

Vibration module with recording of speed data

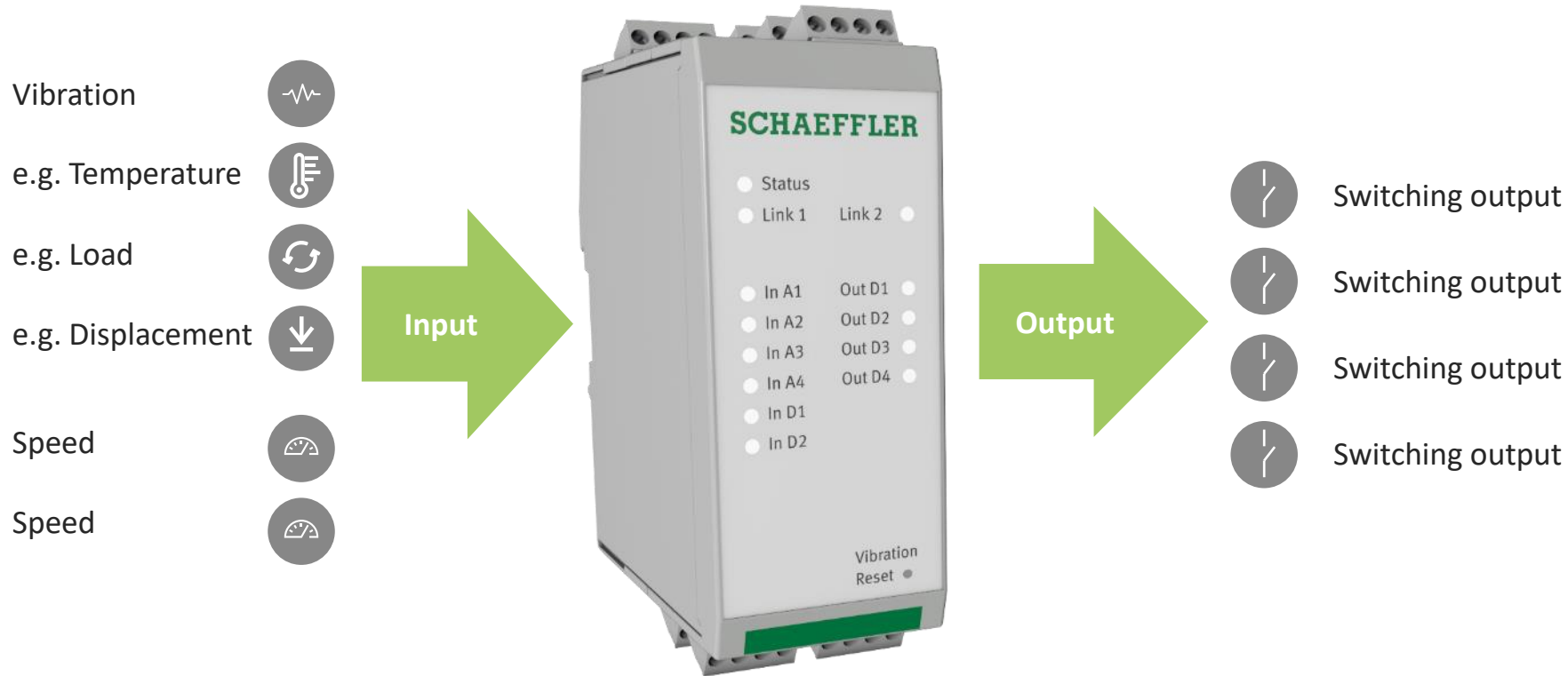
- Extremely high signal quality (24 bit)
- High-quality signal processing

* Field bus connection is planned for a later release

Short info

- Smallest unit consisting of processor module (CPU) and vibration module.
- Depending on requirements, the modules can be expanded from 4 to 8, 12 or 16 vibration channels
- Based on proven SmartCheck technology with consistent operating concept and identical software for both products
- Integration into the process world via usual field buses

Vibration Module

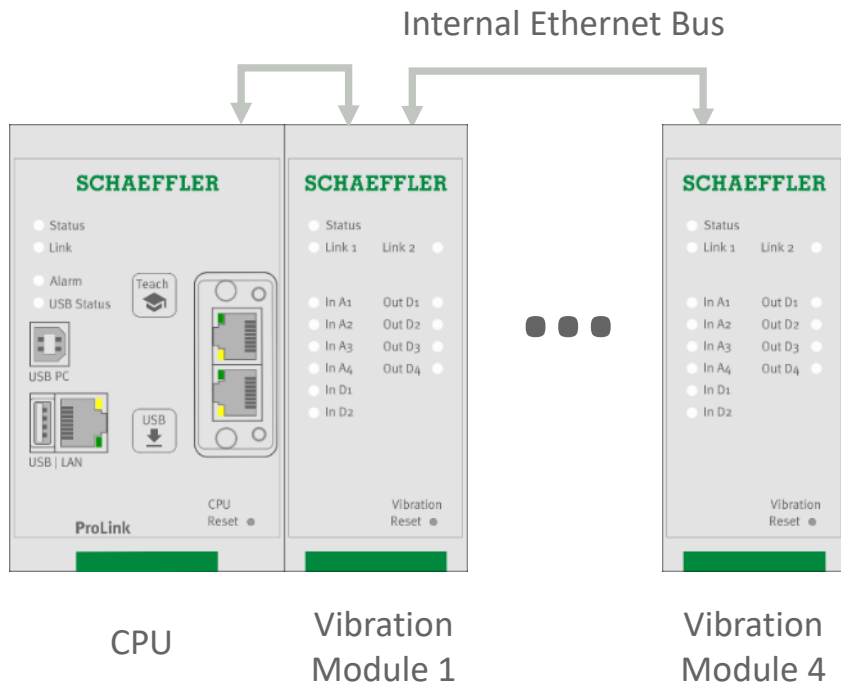


Function:

The vibration module captures the signals important for monitoring such as vibration, speed, voltages, etc. and transmits them to the CPU.

In case of an alarm switching outputs will be activated which can be connected to customers PLC

Maximum expansion of the Monitoring System (available)



- Max. 4 Modules
 - 4 x Vibration
- 16 Vibration Input
- 8 Digital Input (of which 8 Pulse A/B coded)
- 16 Switching output (digital)

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Areas of application

Usable across all industries

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- Steel
- Paper
- Raw Materials
- Wind
- Production / Manufacturing
- Marine
- ...

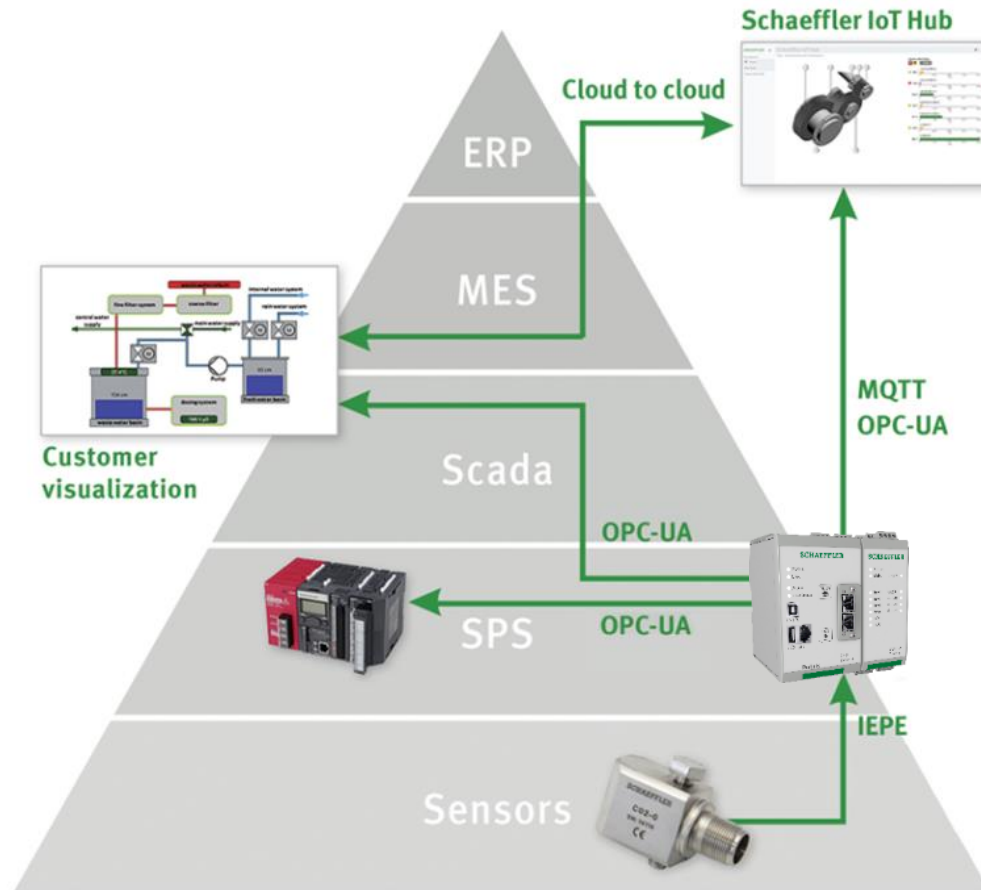


- Motors
- Fans
- Compressors
- Gear boxes
- Vibration screens
- Crushers / Mills
- Spindles
- Rolling Mills
- Tooling machines
- ...

Agenda

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System integration in customers infrastructure



Easy integration in process automation via:

- OPC/UA Server
- SLMP Client

Cloud communication via:

- OPC/UA Server
- MQTT

Direct integration in ERP and Cloud



Direct integration via standard communication channels:

- OPC/UA Server
- WebServices
- E-Mail

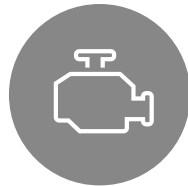
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Advantages

Immediately ready for use

- The pre-installed basic configuration of the ProLink CMS allows general monitoring of standard equipment such as motors, fans and pumps
- The adaptive learning mode sets the alarm thresholds individually for the unit to be monitored



No additional software necessary

- Software for Configuration, View trend data and first analysis included on the device itself by using a standard web browser
- Operation possible without additional workstation licenses
- No approval by IT necessary



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Range of Services



- **On site service**

Definition of measuring points, commissioning, reference measurements, measuring rounds, system integration, investigation of the cause(s) of problems

- **Remote monitoring**

Remote servicing (analysis and reporting) and system maintenance (adjustment of alarm thresholds etc.)

- **Condition report with recommendations for action**

Preparation of condition reports and written recommendations for action

- **Maintenance Services**

System integration and adaptation, integration related consultation, maintenance service

- **Training courses**

Standard and tailored to our customers' needs

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Further Information

Further information

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Further information to follow

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