HAICMON CMU
The HAICMON CMU is the standard unit for vibration monitoring of large scale plants in combination with the HAICMON Analysis Center. It can be used for various applications, such as classic vibration monitoring of drive trains, chatter monitoring in rolling mills and friction bearing monitoring according to ISO 7919.

Key information:
- Cutting edge processing, even for complex analyses
- Up to 128 GB of local storage capacity
- Can be expanded to 64 inputs (up to 32 of them vibration inputs) or outputs
- 1 Ethernet interface for communication with automation environment

microCMU
The microCMU is the "heart" of hydraulic unit, hydraulic cylinder and rotary distributor monitoring.

Key information:
- Evaluation intelligence in small form factor for top hat rail mounting
- 4 GB of local storage capacity
- 8 analogue inputs for standard sensors (e.g. pressure, flow rate, etc.)
- 8 digital outputs as signalling contacts
- 4 of which can be used as digital inputs for status signals
- 2 serial interfaces for connecting intelligent sensors with pre-evaluation
- 1 CAN Bus interface for future expansion
- 1 Ethernet interface

HAICMON ANALYSIS CENTER
Configuration, central data storage with long term trend analysis and even email alerts are all taken care of by our highly capable server software, the Analysis Center.

Key information:
- Advanced web application without additional client software
- Efficient database on Microsoft® SQL Server®
- Trouble-free performance in virtual environments
- Automatic and manual trend analysis
- Convenient configuration with integrated component library
- Alerts via email in the case of deviations
- Flexible status calculation
- Integrated data correlation

SERVICE
In addition to the products, Hainzl offers a comprehensive range of services:
- System support service with recommendations for action
- Software update service
- Turnkey system installation and commissioning
- Temporary operational measurements in case of unexpected machine behaviour
- System training

CONDITION MONITORING 4.0
The Analysis Center also allows users to carry out straightforward analysis of long term trends in leakage and fluid monitoring systems. Users are also able to benefit from automatic email alerts and reports. Trend analysis (e.g. oil humidity or cylinder leakage) over a longer period and the possibility of making comparisons between different components are major benefits. They provide users with valuable information for the optimization of maintenance and production processes. All condition monitoring products from Hainzl can be easily linked to the Analysis Center.
NEXT GENERATION IN CONDITION MONITORING

FLEXIBLE & EFFICIENT
With the CMS product range, Hainzl offers machine and plant monitoring solutions to suit to any type of industry. Continuous data recording and automatic analysis of relevant parameters, such as vibration, temperature, pressure, leakage, oil condition, etc. mean that possible defects or potential process-related problems can be detected at an early stage.

This information allows operators to schedule necessary repair work more effectively, thereby increasing the efficiency and availability of their production plant. Thanks to the versatile combination possibilities, the monitoring system can be extended simply and economically from covering a single component to monitoring an entire plant.

The microCMU is the “heart” of hydraulic unit, hydraulic cylinder and rotary distributor monitoring. As rotary distributors are generally installed in locations that are difficult to access, they are an ideal area of application for miniaturised technology.

The analysis of long-term trends in leakage and fluid monitoring systems can be seamlessly integrated into virtual environments. This simplifies the configuration of monitoring tasks, resulting in convenient and straightforward configuration.

The CLM system (Cylinder Leakage Monitoring) offers a straightforward solution for flow leakage detection for hydraulic units, pumps, oil filters, and friction bearings according to ISO 7919. It is therefore all the more important to be aware of the current condition of production systems.

The UFM system (Unit Fluid Monitoring) enables extensive monitoring of hydraulic power packs and lubrication systems. The main focus is on analysing the medium and operational parameters such as oil humidity, ageing and degree of contamination, as well as monitoring of hydraulic power packs and lubrication systems. The main focus is on analysing the fluid medium and operational parameters such as oil humidity, ageing and degree of contamination, as well as monitoring of hydraulic power packs and lubrication systems.

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BEREITSTELLUNG IM FALLE EINES UNGLEICHGEWICHTS

Efficient condition monitoring – from single components to an entire plant.

BENEFITS

- Increased plant availability
- Optimised spare parts purchasing
- Early detection of process-related problems
- Increased machine efficiency
- Avoidance of costs incurred through production downtimes
- Optimised maintenance scheduling
- Avoidance of consequential damages

- Convenient web application for straightforward operation
- Long term trends and manual analysis by experts
- Extensive component library for quick configuration
- Timely email alerts and automatic reports
- Trouble-free operation in virtual environments

EFFICIENT PROCESS MONITORING

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ANALYSIS CENTER

Efficient condition monitoring – from single components to an entire plant.
BENEFITS
- Web interface for configuration and status information
- Optimisation of service intervals
- Alerts in the event of water ingress
- Early detection of wear in lubrication systems
- Detection of system leakages
- Data transfer to high level control systems
- Documentation of oil changes and service calls

HAICMON
VIBRATION MONITORING

The HAICMON system from Hainzl offers an extremely efficient and flexible vibration monitoring solution for production plants. What is known as the Condition Monitoring Unit (CMU) can record and automatically analyse up to 32 vibration sensors at the same time. This allows damage to be detected at an early stage, right down to the component level (e.g. anti-friction bearings). The server software, Analysis Center, enables convenient and straightforward configuration of monitoring tasks.

It offers many useful functions from trend analysis and manual signal analysis carried out by experts, to email alerts and automatic reports. The Analysis Center is implemented as a web application and can be seamlessly integrated into virtual environments. This simplifies software maintenance and expansion significantly. Monitoring rolling mills, friction bearings according to ISO 7919-3, and cranes, are classic HAICMON applications.

CLM
HYDRAULIC CYLINDER LEAKAGE DETECTION

The CLM system (Cylinder Leakage Monitoring) offers a straightforward and reliable means of monitoring sealing systems in various hydraulic cylinders. This system is particularly advantageous for cylinders which are process-relevant or not easily accessible. The HAICMON Analysis Center also provides a long term trend analysis tool which is the basis for system optimisation.

RDM
ROTARY DISTRIBUTOR LEAKAGE DETECTION

As rotary distributors are generally installed in locations that are complicated or difficult to access, maintenance and replacement is not always straightforward and often requires considerable effort. It is therefore all the more important to be aware of the current condition of these components. Building on experience with the CLM system, Hainzl now offers the RDM system (Rotary Distributor Monitoring), a leakage monitoring system for rotating unions.

BENEFITS
- Monitoring of several circuits using a single device
- Can be used with different media
- Alerts in the case of media mixing
- Linked to machine controller
- Early detection of process-related problems
HAICMON CMU
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