Predictive Maintenance with Condition Monitoring

Industrial Solutions, softgate gmbh

Predictive Maintenance supports your monitoring the machine service life. You will find out how your machines work, when they really need maintenance, and what measures you can take to extend your machines’ service life.
SOMA Data Acquisition & Analytics

How to...?

Find Perfect Maintenance Time
Increase Quality
Enhance Transparency
Improve capacity utilization
Reduce Downtimes
Lower Maintenance Costs

SOMA is our answer to questions on predictive maintenance. Its modular architecture – Data Acquisition and SOMA Analytics – allows the user to use only the components required. In case your company has its own monitoring solution, SOMA Acquisition will collect and process data and send them to the deployed solution for visualization. Visualization only with SOMA Analytics is also possible.

SOMA Data Acquisition

Features
• Recording of sensor and machine data via 24V terminals or field bus system
• Processing of data at millisecond intervals (scaling, evaluation, averaging)
• Alert management based on threshold value monitoring for raw data or calculated parameters
• Configuration of threshold values, evaluations, or scaling via web interface

Benefits
• Connection to external systems, e.g. MES/ERP on request
• Tailored predictive maintenance solution based on our scalable SOMA platform
• Easy linking to SOMA Analytics for online visualization of your data

SOMA System overview

Machine (e.g. CNC) with Machine Control and Sensors

Industrial PC (e.g. Beckhoff IPC®) with SOMA Data Acquisition
SOMA Analytics

Features

- Predefined modules for
  - **Predictive maintenance**: e.g. vibration analysis, bearings control, reference drive analyses
  - **Process data analysis (PDA)**: e.g. machine downtimes, maintenance times, OEE
  - **Energy monitoring**: e.g. measurement of energy or expendable materials, recording of and alerting at performance peaks
- Evaluations and tendencies based on data provided by e.g. SOMA Data Acquisition
- Reporting of critical conditions, cyclic evaluations, consumption analyses, and tendencies

Benefits

- Easy linking to SOMA Data Acquisition
- Individualized solution based on our scalable SOMA Platform
- Easy retrieval of configuration, visualization, evaluations, and reports via standard browser from any terminal
- Personalized dashboard for a clear presentation of your machinery, supported by “traffic light signaling”
Contact:
Torsten Albrecht
Sales & Account Manager

phone  +49 9131 81270-0
mail   contact@soft-gate.de