Condition Monitoring: Easy monitoring of mechanical components

- **Siplus CMS1200 Condition Monitoring System**: Continuous condition monitoring via TIA Portal and Simatic S7-1200 controller
- Detect mechanical damage at an early stage
- Monitor the mechanical components of motors, generators, pumps, fans and gear units

Siemens has developed the Siplus CMS1200 Condition Monitoring System to monitor mechanical components. It is an expansion module for the S7-1200 controller that is based on the SM 1281 Condition Monitoring Module. The user creates an efficient monitoring system by combining up to seven SM 1281 modules, to each of which four vibration acceleration sensors and one speed measurement sensor can be connected. This system can be used for continuous monitoring of mechanical components such as motors, generators, pumps and fans. When Siplus CMS1200 is used for predictive maintenance, significant changes as a result of wear, for example, can consequently be detected at an early stage, enabling maintenance activities to be better planned and carried out on schedule.

By means of the TIA Portal (Totally Integrated Automation) engineering framework, the Siplus CMS1200 Condition Monitoring System is readily integrated into an automation group containing HMI (human machine interface) devices, controls and motion control components. The recorded signals are easily evaluated with the CMS analytical software on the SM 1281 modules, or archived with a time stamp in the 800 MB memory for further analysis. Trend values, raw data, frequency ranges and messages can be recorded.
The versatile analytical capabilities of Siplus CMS1200 range from parameter-based, frequency-selective analyses, through trend analyses, to monitoring the limits of frequency ranges. The fingerprint comparison makes it easy to localize damage. The parameter-based diagnostics run directly on the S7-1200 CPU for easy monitoring. These diagnostics are performed directly on the SM 1281 module and can be accessed by web browser to avoid the production cycle being burdened by detailed, frequency-selective diagnostics.

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This press release and a press picture are available at

www.siemens.com/press/PR2015110054DFEN

For further information, please see www.siemens.com/siplus-cms
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