INTELLINOVA®

Condition Monitoring the Intelligent Way

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SPM Instrument launches online condition monitoring system Intellinova®

SPM Instrument, Sweden, leading worldwide provider of condition monitoring technology and products, today announced the launch of its new high-performance online system for condition monitoring of critical industrial equipment. The system, named Intellinova®, complements the Nova family of products, where the Condmaster® Nova software and portable Leonova™ instruments have already reached global success.

A multifunctional backbone of any condition monitoring program, Intellinova is a powerful system for overall asset maintenance and control. This successor to the world renowned CMS system is a carefully designed and dependable workhorse, developed to fit the needs of a wide range of machinery applications. The online system implements farsighted solutions to ensure a durable and scalable system at an affordable price. The use of modern technology throughout the system makes measurement and signal conditioning very fast and enables extremely high levels of measurement accuracy and repeatability.

Intellinova measures shock pulse using the True SPM® Method and uses SPM Spectrum™ for in-depth bearing analysis. Shocks emitted by rolling element bearings are analysed with FFT. Band alarms enable easy alarm management and improved alarm reliability. For vibration analysis, Intellinova uses EVAM® (Evaluated Vibration Measurement Analysis). EVAM combines vibration time record analysis and vibration spectrum analysis with machine specific statistical evaluations to supply easy to understand machine condition data. Two channel simultaneous vibration measurement provides the functionality for root cause analysis. The system is capable of orbit and run up/coast down measurements.

The system is comprised of an industrial enclosure, a Commander Unit and up to four shock pulse, vibration and/or analog measuring units, in total 32 channels. Measurement results are transferred via Ethernet to the diagnostic software Condmaster® Nova. Intellinova implements OPC™ Data Access, through which process control data can be transferred seamlessly to and from any data source, such as DCS or SCADA systems, PLCs, databases, gauges, spreadsheets etc. to any OPC compliant application. Intellinova is robustly designed in every aspect, made for harsh environments and long-term use.

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A powerful Digital Signal Processor (DSP) in the Commander Unit and advanced programming logic offers features such as conditional and triggered measurements, advanced filtering of measurement data, measurement for spectrum analysis under alarm condition only, and multiple-level system and measurement alarms. The operational status of the system is monitored through a system self-diagnostics feature.

Any reasons to compromise between cost and features have been designed out; Intellinova is a highly scalable solution and can be tailored to the various needs of many different customers and industries. The system is compatible with other products from SPM and may therefore be integrated with existing solutions, sharing the same database. Intellinova can also be run parallell to portable measuring equipment such as Leonova Infinity. Measuring techniques can be combined as needed and are sold according to the Pay for Performance concept.

In conjunction with the release of Intellinova, SPM also introduces Plant Performer™, a decision support module in Condmaster, enabling strategic analysis of the economical impact of maintenance. Plant Performer also provides database statistics and technical Key Performance Indicators of machine condition.

Mikael Lindfors, Manager of Business Solutions, comments: ”With the launch of Intellinova, SPM has a complete and comprehensive suite of advanced condition monitoring products for industrial maintenance. Our mission was to develop a world class online system. We have done so, and are very proud of the result and confident that Intellinova is up to the maintenance challenges of the world’s industries.”

Launch date for Intellinova is April 1st, 2008.

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