


www.spminstrument.com

CONDITION MONITORING EXPERTISE FOR EVERY INDUSTRY

RELIABLE ONLINE
AND PORTABLE SOLUTIONS

FIRST CLASS VIBRATION ANALYSIS
GEAR AND BEARING MONITORING



SPM solves maintenance problems, across
the world and in all branches of industry.
We provide everything you need to become
your own condition monitoring expert.



We offer a wide product range from high-tech portable instruments to online systems and a comprehensive software. Our intelligent solutions are cost-effective, modular, and complete. They make an excellent foundation for a proactive approach to maintenance, integrated into your normal maintenance activities and providing you with an overall picture. On your request, we will put together the monitoring equipment and training package best suited to your economic and technical requirements.

We have the organization and the expertise to increase the availability and profitability of your production equipment and processes. Qualified sales, service, and support representatives in more than fifty countries look forward to helping out.

Try us! We make your uptime our business.



Available in
IS version

Leonova® Diamond

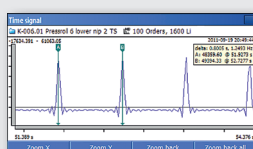
Brings fast and powerful analysis and troubleshooting to your condition monitoring program.

Leonova Diamond is a portable instrument for condition measurement in rough industrial surroundings. Providing maximum value, performance and control, this is the ultimate tool for the advanced vibration analyst. Leonova Diamond offers a powerful combination of proven measuring techniques for every situation with features such as:

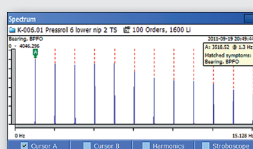
- 3-channel simultaneous vibration measurement
- Up to 25 600 line FFT spectrum
- Frequency range DC to 40 kHz
- Dual plane balancing
- Orbit analysis
- Laser shaft alignment



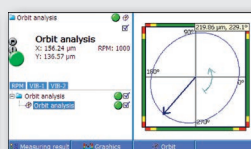
Measuring point window



Time domain analysis



Spectrum analysis



Orbit analysis

Leonova® Emerald

The ideal frontline measurement tool for maintenance engineers and technicians.

Leonova Emerald takes the hassle out of managing large measuring routes and recording vast amounts of measurement data. The instrument is lightweight, ergonomic, and easy to operate.

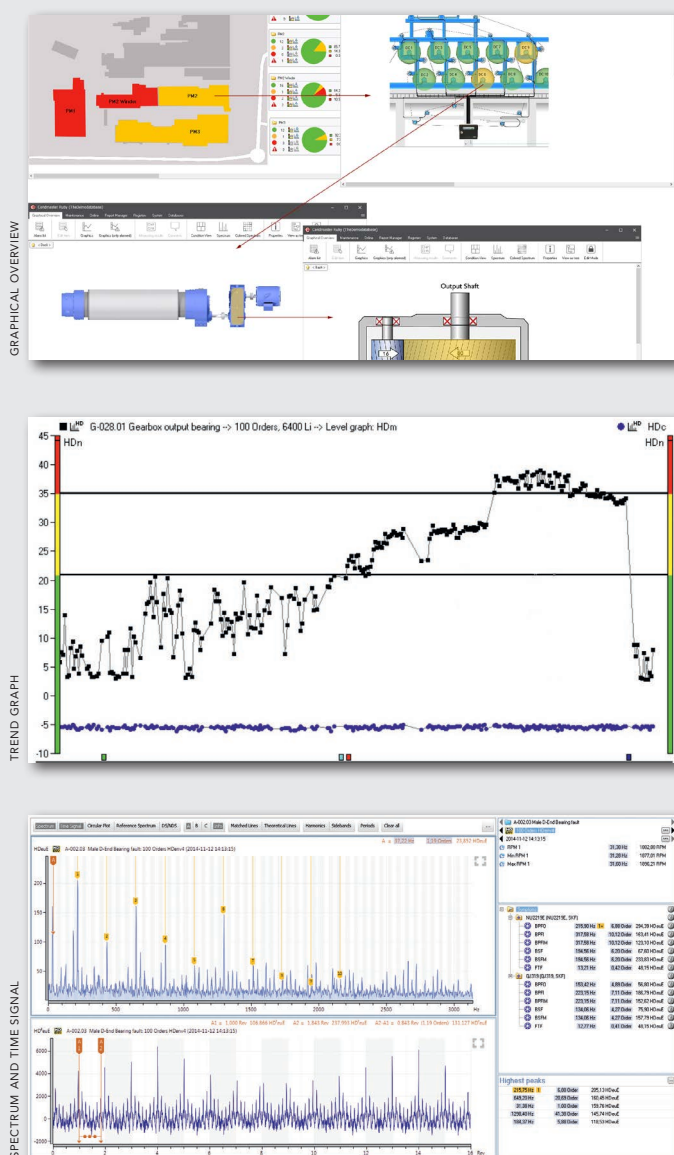
- Up to 12 800 line FFT spectrum
- Vibration DC to 20 kHz
- Instant condition evaluation



Available in
IS version

Condmaster®

A comprehensive analysis, diagnostics, and troubleshooting software communicating with our portable instruments and online systems for condition monitoring.



Optimal flexibility and greater efficiency

The Condmaster® software is module built and can be tailored to your requirements.

Condmaster contains the expert knowledge needed to evaluate machine condition: a complete bearing catalog, lubricant data, bearing life calculation, evaluation in green - yellow - red, ISO limit values, spectrum and time domain analysis, fault symptom detection, and much more.

Powerful graphics provide a clear overview and visualization of measurement results. A range of flexible features to customize workflows and manage the analysis of condition measurement data gives an efficiency boost to the daily work of engineers and analysts. The software offers a wide range of connectivity options, perfect for smart factories and Industry 4.0 environments.

- Easy setup and navigation
- Clear graphical overview
- Instant evaluation in green - yellow - red
- Web and email alarms
- Data import and export functions



ONLINE SYSTEMS

Cost-efficient online condition monitoring with extensively proven measuring techniques

Intellinova® combines complex measuring techniques and advanced data processing with a user-friendly interface and an array of options for individual system customization.

Intellinova is a series of online condition monitoring systems where proven methods and modern technology meet to ensure the highest possible uptime of critical assets.

The Intellinova systems are robustly designed in every aspect. The hardware is sturdy and well suited to harsh industrial environments and long-term use. Software components have been carefully designed and selected to create a system for the future, with ample opportunities for interoperability between automation assets.

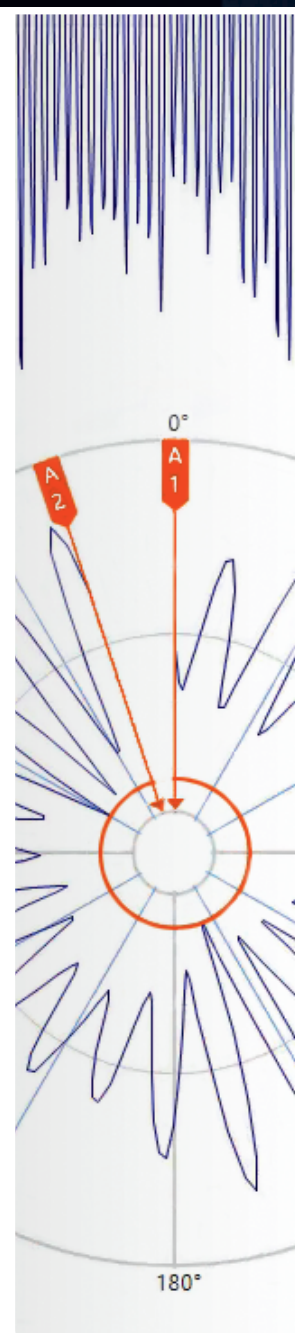
Intellinova is available in various shapes and sizes for different needs.

- Handles thousands of measuring points
- Flexible alarm management
- Ethernet or wireless communication
- Data access via Rest API and OPC

At the top of the range is the highly sophisticated Intellinova® Parallel EN system, perfectly suited for condition monitoring of industrial equipment with high availability demands.

With parallel and synchronous condition measurement, Intellinova Parallel EN continuously monitors critical equipment, capturing relevant events without delay. Sixteen synchronous channels for vibration and/or shock pulse measurement with the DuoTech accelerometer, and eight RPM channels can be used for data acquisition on machinery with complex drives, even under variable operating conditions.

- Flexible measurement and alarm management
- Continuous event capturing
- Status outputs for alarm indication
- Digital and RPM inputs for event-triggered measurements





Available in
Ex version

Accessories

An extensive line of transducers and installation accessories for tough environments.

The DuoTech® accelerometer is a single transducer solution used for vibration or shock pulse measurement, or a combination of both. It provides maximum flexibility to select the optimal measuring technique for a given type of problem or application.

The SOLID transducers are high performance vibration transducers for a large variety of applications. SOLID transmitters provide a 4-20 mA output signal that can be transferred to common process control systems.

We also offer a wide range of shock pulse transducers for bearing monitoring.

BearingChecker

for fast measurement of bearing condition

The instrument measures shock pulses with a built-in probe or external sensor. Measurement results are immediately and automatically evaluated in green - yellow - red. BearingChecker is a compact and handy instrument, easy to carry along on regular maintenance rounds.

VibChecker

for vibration measurement in the 10-1000 Hz range

VibChecker - vibration monitoring on the go. Measurement results are immediately and automatically evaluated against ISO standards with a clear, intuitive indication of vibration severity. Time signals and FFT spectrums enable easy pattern recognition. Measurement results can be stored for trending of vibration levels and follow-up.



Electronic stethoscope

Quickly locate the source of abnormal mechanical noise on your machines.

The stethoscope is a practical and easy-to-use listening device with excellent sound quality for locating the source of mechanical noise in a broad range of applications. Bearing condition, gear and pump noise and electric relay operation are just a few of the many sounds which can be identified, amplified and assessed.



High Definition measuring technologies

Condition monitoring with our High Definition (HD) technologies provides extremely long pre-warning times, thus maximizing the planning horizon for maintenance and repairs.

HD ENV

The patented HD ENV® enveloping technology is a new era in vibration monitoring. It enables the detection of impact related events very early on in the damage process, making it possible to closely monitor the development throughout the stages. Exceptionally clear spectrums and time signals make it easy to identify gear and bearing faults.

HD ENV can be used to monitor applications running at very low to extremely high RPMs. The technology can be used with existing vibration transducer installations and thus quickly and easily integrates into existing infrastructures.

SPM HD

The much acclaimed SPM HD® shock pulse measurement technology is a patented further development of the Shock Pulse Method® (SPM) providing reliable information on the lubrication and mechanical condition of bearings. Instant evaluation of bearing condition is given in an easily understood green - yellow - red colour scheme.

Advanced digital technique and RPM-based sampling frequency make SPM HD suited for measurement across a vast RPM range, including ultra-low-speed applications, ranging from 0.1 RPM and upwards.



In addition to our HD technologies, we offer a wide range of methods and aids for troubleshooting and root cause analysis. Our highly skilled personnel will help to make the right choice for you and your company, based on your economic and technical requirements.

• • • SPM Academy • • •



We offer qualified training for all production and maintenance personnel who are involved in different ways in condition monitoring of rotating machinery.

The objective of our training courses is to enable your own personnel to carry out measurements, evaluate the results and make well grounded decisions. The purpose is to secure and make production more efficient. SPM Academy pro-

vides standardized courses as well as customized training. SPM Instrument is an accredited official Mobius Institute Training Partner for Sweden, and offers ISO certified CAT I, II, III vibration analysis training.