



## SPM Instrument releases cutting-edge portable instruments for extreme EX zones

SPM Instrument, Sweden, leading provider of condition monitoring technology, now announces the launch of Leonova Diamond®IS and Leonova Emerald®IS. IECEx and ATEX certified, these new arrivals from SPM provide sophisticated condition monitoring capabilities for potentially explosive industrial environments, including zones 0, 1 and 2.

Leonova Diamond IS and Leonova Emerald IS are built to withstand harsh environmental conditions. Heavy industries with intrinsic safety requirements such as the refinery, mining or oil and gas industries are challenging environments. Assets typically are substantial investments placed in remote or dangerous locations, making maintenance difficult and production downtime extremely costly. The wear-and-tear resistance of Leonova makes them perfect for these and other demanding industrial settings.

Leonova provides a unique combination of sophisticated technologies and usability in a single measuring device with exceptional analytical power and versatility. The instruments comply with the strictest IECEx standards and thus can be used in extremely explosive atmospheres, including zones 0, 1 and 2 and gas group I/IIc.

### SPM HD and three-channel vibration monitoring

The Leonova instruments are uniquely effective tools for condition measurement on hazardous area equipment. The strongest combination of measuring techniques available provides maximum flexibility. Leonova Diamond IS and Leonova Emerald IS are the first portable measuring devices to come with the SPM HD® shock pulse measuring technique for condition monitoring of rolling element bearings in hazardous areas. Outperforming traditional vibration measurement techniques on many applications, the SPM HD method is unrivalled in its ability to measure in the entire 1-20,000 RPM range. The perfect companion to vibration analysis, SPM HD can be used successfully on all types of machinery with rolling element bearings.

Leonova Diamond is also the first ATEX/IECEx certified instrument to offer three truly parallel vibration channels enabling advanced vibration analysis (40 KHz, 25,600 lines) and balancing. Both instruments use supreme HD Order Tracking for shock pulse and vibration measurement to provide crystal clear measuring results also on variable speed equipment.

Press release

## Lightweight and ergonomic with TFT-LCD color screen

The instruments are easy to use and operate. Compact, lightweight and ergonomic, they have the added convenience of a large, high-resolution TFT-LCD color screen. USB communication interface enables efficient configuration and data transfer. An uncompromising choice of components and materials guarantees long-lasting and trouble-free operation in adverse conditions.

Leonova provides reliable, comprehensible and actionable information – right at the point of measurement. State-of-the-art digital instrument technology and optimal performance utilization enables very rapid data acquisition and processing while maintaining excellent measurement accuracy. Upon completed measurement, the instruments instantly display condition evaluation on an intuitive green-yellow-red scale.

Stefan Lindberg, Managing Director of SPM Instrument AB: "We consistently strive to develop and deliver superior condition monitoring products to the world's industries. Leonova Diamond IS and Leonova Emerald IS are results of this dedicated work. Our R&D department has engineered two leading-edge instruments that will enhance the possibilities for maintenance engineers to practice advanced condition monitoring in hazardous areas."

Leonova Diamond IS and Leonova Emerald IS have the following EX markings:

<b>Gas</b>	<b>II 1G Ex ia IIC T4 Ga</b> <b>T<sub>a</sub> -20°C to +50°C</b>
<b>Mining</b>	<b>I M1 Ex ia I Ma</b> <b>T<sub>a</sub> -10°C to +50°C</b>

For technical details, please visit:

[www.spminstrument.com](http://www.spminstrument.com) [www.spmhd.com](http://www.spmhd.com)

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