SPM

Leonova® DIAMOND

PORTABLE INTELLIGENCE

CONDITION MONITORING AS YOU HAVE NEVER SEEN IT

BEARING MONITORING WITH SPM HD®

SPM HD is a new achievement in condition monitoring technology and a groundbreaking solution to problems involving condition measurement on low speed machinery.

The method is a patented evolvement of the well known and reliable True SPM® method, commonly recognized as the best method for measuring bearing condition on rotating machinery. Requiring little input data, the method measures signals from rolling element bearings and instantly evaluates the condition in intuitive green - yellow - red condition codes.

Where established methods fail, SPM HD detects deteriorating bearing condition and incipient failures with impressive accuracy and exceptional prewarning times. The perfect companion to vibration analysis, SPM HD can be used successfully on all types of machinery with rolling element bearings.

HIGH-PERFORMANCE VIBRATION ANALYSIS

Leonova Diamond® provides razor-sharp spectrums even where signals are weak and low in energy content. The need for gain adjustments has been designed out, giving an excellent signal-to-noise ratio; a decisive advantage where weak signals are present among stronger signals, such as in gearboxes.

The instrument offers advanced and innovative order tracking functionality. Thanks to careful engineering and optimal use of digital technology, the powerful HD Order Tracking enables more precise measurements and more detailed spectrums than ever before.

The EVAM® measuring technique supplies pre-programmed evaluation models for time and frequency domain parameters. Measurement data processing, machine fault symptom computation and trending is all done in the instrument.

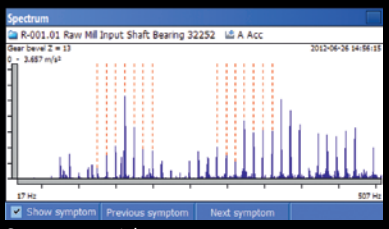
Ex version available

- 4.3" TFT colour display with automatic back light
- Programmable function keys
- One hand operation, right or left
- Accepts IEPE standard vibration transducers
- Carbon-fiber-reinforced enclosure, IP65
- Exchangeable Li-Ion battery pack for min. 16 hours normal use
- RF transponder for contact free measuring point identification, read and write functions in connection with CondID® memory tags
- Drop test 1 meter according to IEC 60079-0
- Weight approx. 800 g

- Three channel simultaneous vibration monitoring
- Frequency range DC to 40 kHz
- Dynamic range >100 dB, 24 bit AD
- Up to 25600 line FFT spectrum
- Pre-fault symptoms for spectrum analysis
- Waterfall, phase and real time spectrum
- Simultaneous recording for up to 50 hours
- Enveloping, true zoom, synchronous measurement
- Stroboscope input/output for rpm measurement
- Download thousands of measuring points
- Current and voltage input, 0 – 20 mA / 0 – 10 V
- Motor current analysis
- Speed measurements 1 – 120 000 rpm
- Stethoscope function, earphones
- Automatic transducer line test
- Voice recording of comments
- Language selection

Band alarms in SPM HD spectrum

Tri-axial vibration measurements



Spectrum with gear symptom