VIBER X5™ MKIII

Smart products for smart people

The new VIBER X5™ MKIII has all features for a reliable analyse of various causes that affect machine conditions and current need of maintenance.

All instruments are designed for rough use and has a heavy duty Casing designed from our years of experience.

Now with embeded thermal camera.

VIBER X5™ MKIII

- Easy to operate by logic functions, saves time to learn to use it properly.

- Rugged and tight (IP 65).

- All machine faults can be detected and analysed by multi functional measurements.

- Expert system with automatic fault analyse can be used.

- 5" Crystal clear display, easy to read even in bright light.

- More than 12 hours battery life.

- Outstanding price-performance ratio.

VIBER X5™ MKIII

Customer comments about VIBER X5™ MKIII;

"Very fast instrument starts directly"

"Very smart analysing software, best in market"

"Smart route windows, you never miss any information"

"Situation based help menu, makes the use very easy"

"Balancing is very Easy and logic to perform"

"Listening to Bearings is very useful for monitoring our conveyors"

"Extremely useful to detect and solve machine faults"

"The situation based help menu give me fast response when I've forgotten something"

"With the internal non-contact IR transducer there is now no reason to not measure temperature in route"

"We can use the same route for the VIBER X5™ MKIII as for the Easy Viber™ and X-Viber™"

Sample of Accessories:

Current Clamp, use for speed measurements both for standard electrical motors and frequency controlled electrical motors, also for performing electrical motor test using the software MCSA, (Motor Current Signature Analyse).

3-Axial sensor, with real simultaneously measurements, can reduce work time up to 70%.

Animation measurements using software VibShape, can be performed very easily with the 3 axial sensor, makes it faster and easy to execute.

Balancing kit. Including External tacho (15 to 60000 RPM) with 5m cable, 2 pcs 5m extension cables for transducers, fast and easy to setup magnet holder for the tacho, and a pocket Scale.
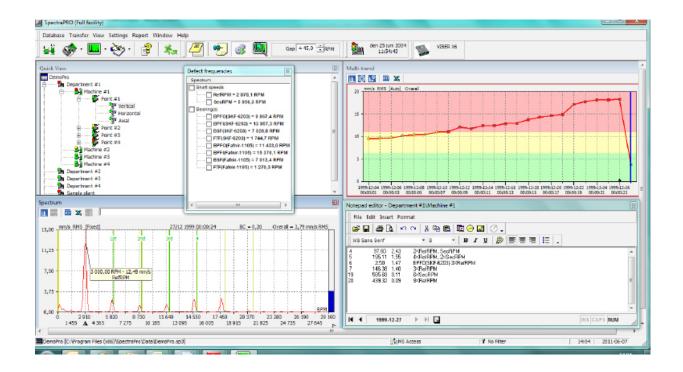The VIBER X5™ MKIII Case is already pre-cut for the Balancing kit items.

SpectraPro analyzing and route Software

VIBER X5™ MKIII is designed to work together with SpectraPro, PC software for advanced vibration analysis.

- Can measure speed in route with embedded tacho sensor

- Create routes and set alarm levels. VIBER X5™ MKIII can be used for the same routes as X-Viber™.

- Simple database structure with templates and pictures.

- Large bearing database (over 9000 pcs) where defect frequencies can be calculated and automatically analysed.

- Quick view, store your own array of windows for fast viewing.

- Waterfall, last 5 spectra or choose your own.

- Automatic reports, generate probable fault causes and several reports with just a a click of a button.

- Network, multi user.

- Work with different level of access, let your colleagues, supervisor, customer etc have access to the plant status via low cost (non editable) graphical interface.

VIBER X5™ MKIII Display Pictures

VIBER X5™ MKIII

VIBER X5™ MKIII scalable platform is designed to allow you to add more features with the functionality you need whether you are an experienced analyst or just starting a Condition-based Maintenance program.

☑ Included in the standard delivery

☐ Option

☑ 2 Accelerometers, VMI 192

☑ Internal IR temperature meter

☑ Possibility to listening to the bearings while measuring

☑ IP68 rugged carrying case

☑ Extension tip

☑ Desktop charger

☑ Hand straps for comfortable use

☑ USB cable for connection to a computer

☑ Free software update

☑ 2 year manufacturing warranty

☑ Route based data collection

☑ Multimeter, process parameters

☑ Data logger for long-term recording

☑ Coast-down/-up

☑ Thermal camera

☑ X TOOLS

☑ Orbit

☑ Bearing condition

☑ Amplitude and Phase

☑ Envelope

☑ Spectra

☑ Waveform

☑ Synchronous averaging

☑ Bump test

☑ Cross Spectra

☐ Loop Power 4-20mA measurement

☐ One- and two-plane balancing kit

☐ Vibshape

☐ 3 channel simultaneous measurement

☐ Current clamp to measure current and indicate speed

☐ MCSA (Motor current Signature Analysis)

Technical data VIBER X5™ MKIII

Digital	**DSP Processor**	Texas TMS320C6713B	
	Memory	Storage: 4 GB micro SD card 128 MB RAM 2*16 MB fast flash memory	*Minimum spec. Actual spec. is depending on hardware revision*
	ADC	16 bit, max 192 KSPS simultaneous sampling	
Display	Size & Resolution	5" Amorphous TFT LCD 480 x 272 pixels	
	Colours	65536	
Signals in/out	**AC inputs**	All standard ICP accelerometers (4mA/24V), velocimeters or general purpose AC transducers in range 0-30 V RMS	*VMI default transducers are automatically recognized*
	DC input	0 to 5 V	
	External reference	0,8 to 24 V	
Built-in transducers	**Thermal camera**	Resolotion 80x60, Temp range -20° to +250°C, Accuracy 2% or ± 2°C, Fild of view 51°H x 63°V, Minimum focus ditance 0.5m, Color plate Iron & Gray, Frame rate 9Hz.	*Infrared*
	Tachometer	30 - 60000 RPM	*Retro-Reflective*
Measurements	Processing	Direct, single or double integrated or derivated (configured in software upon used transducer and user request). Up to three channels simultaneous sampling	
	Frequency range	0.5 to 32000 Hz	*Depending on transducer*
	Amplitude range	0 to 80 g	*Depending on transducer*
	Accuracy	0.01 g ± 1 % for non integrated 0.1 mm/s ± 2 % for single integrated 2 µm ± 3 % for double integrated	
	FFT lines	25600	
	Sampling rate	Up to 131072 Hz depending of selected frequency range	*Three channels simultaneous sampling*
	Windowing	Selectable: Hanning, Hamming, Blackmann, Kaiser-Bessel	
Power	Accumulators	6.2 Ah Li-ion fule gauge smart battery pack	
	Autonomy	12 hours typical use	
	Charging	4 hours typical charge time	
Temperature	Operating	-20 °C to +70 °C (-4 °F to 158 °F)	
	Storage	-30 °C to +80 °C (-22 °F to 176 °F)	

Net weight: 1,8 kg

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