

X-Viber™

SMART PRODUCTS FOR SMART PEOPLE



Selectable:

- Measuring unit
- Average
- Frequency range
- Alarm levels

Options that may be added:

Data logging, save up to 15000 measurements

Amplitude and phase measurements

Spectrum storage in route

Advanced analysis software SpectraPro

Analysis and Route instrument

PC communication and analysis with the X-Trend software, which is delivered along with the X-Viber.

- Create Route and Edit database
- Extended analysis with level and frequency of the 5 highest vibrations
- Analysing the trend information

Automatic pre-made reports for:

- Trend
- Machine history
- Transfer report
- None measured machines

Technical data X-VIBER

Standard Vibration Transducer VMI 199-28		Total Bearing Condition Value	
Sensitivity	100 mV/g max measuring range $\pm 50g$	Frequency at Bearing Condition	Selectable between 0.5-6.4 kHz, 1-8 kHz, 2-8 kHz, 3-8 kHz
Frequency range ($\pm 3db$)	0.5-15000 Hz	Unit	g RMS
Resonance frequency	34000 Hz	Automatic comparison with selectable alarm levels	1 limit value
Temperature range	-50 to 120 °C	Analysis	
Mounting	Magnetic holder, hand held or measuring pointer	Same properties as with Total Vibration Level	Automatic analysis of 5 highest frequencies with the highest levels
Cable length	1 m	Route (Downloaded from the X-trend PC software)	
Vibration Input Electrical Specifications		Memory capacity	999 measuring points including Total Vibration Level, Bearing Condition Level and Envelope Level
Maximum input signal	$\pm 5V$ Peak	Balancing	
Sensitivity, standard settings	Accelerometer 100 mV/g	Same properties as with Total Vibration Level	Single plane with vector method and 3-point balancing
Current- and voltage supply to transducer	2.1 mA constant current max 20V	Frequency range	2-200 Hz/120-12000 RPM
Built-in Speed Transducer (Infrared photocell)		Spectrum in Route	
Measuring range	30-12000 RPM (0,5 to 200 Hz)	Memory capacity	999 Spectra
Measuring distance	0,15 to 1 m	Frequency range	2-800 Hz, 8-3200 Hz, 10-6400 Hz
Measuring object	Reflex tape	Resolution	1.5 Hz, 3.5 Hz, 5 Hz
Automatic comparison with selectable alarm levels	2 different limit values	Miscellaneous	
Built-in Temperature Sensor		Dynamic measuring range	>80dB
Measuring range	-20 to +120 °C, adjustable emission factor	Auto Scaling	Yes
Accuracy	± 2 °C	Internal memory	512 kb Ram, 512 kb Flash, 256 Mb Memory Card
Resolution	1 °C	Graphic display	68x124 pixels with background light
Measuring distance	0.2 to 0.5 m	Main processor	Micro processor 38 MHz
Automatic comparison with selectable alarm levels	2 different limit values	Real time clock	Yes
Total Vibration Level		Power usage at measurements / sleep mode	120 mA/ 25 μA > 10 hours of continuous operation
Selectable frequency ranges	2-800 Hz, 4-1600 Hz, 8-3200 Hz, 10-6400 Hz, ISO 10-1000 Hz	Computer communication	USB, max 256 kbaud/s
Selectable units metric	mm/s, μm , mm, m/s, g	Power supply	4xR6 2000-2700 mAh rechargeable NiMh batteries
Selectable units imperial	in/s, mils, thou, g	Min/max environment temperature while measurement	-20 to 50 °C
Selectable type of average	RMS, Peak, P-P	Dimensions	180 x 80 x 40 mm
Automatic comparison with selectable alarm levels	1 limit value	Weight	480 grams including batteries
Total Envelope Level			
Frequency range	500-6400 Hz		
Envelope level within the frequency range	1-1000 Hz		
Unit	gE RMS		
Automatic comparison with selectable alarm levels	1 limit value		

VMI International AB