

X-ViberTM

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 Editdatabase
- 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

Sensitivity 100 mV/g max measuring range ± 50g Frequency range (± 3db) 0.5-15000 Hz Resonance frequency 34000 Hz Temperature range -50 to 120 °C Magnetic holder, hand held or measuring pointer 1 m 1 m 2	Strandard Vibration Transducer VMI 199-28		Total Bearing Condition Value	
Trequency range (± 3db) 0.5-15000 Hz Resonance frequency 34000 Hz Temperature range -50 to 120 °C	Sensitivity		Frequency at Bearing Condition	
Automatic comparsion with selectable alarm levels Same properties as with Total Vibration Level and Envelope Level	Frequency range (± 3db)		Unit	
Mounting Magnetic holder, hand held for measuring pointer		34000 Hz		1 limit value
Mounting Magnetic Rollet, Band Relact or measuring pointer of the selectable alarm levels Selectable frequency ranges 2.800 Hz, 1-6400 Hz Selectable type of average Selectable time time prial Selectable larm levels Selectable tunits imperial Selectable larm levels Selectable type of average Selectable type of avera	Temperature range	-50 to 120 °C		
Cable length 1 m Vibration Input Electrical Specifications Maximum input signal	Mounting	Magnetic holder, hand held		
This Total Vibration Level Superation This Superation Supe			Same properties as with	
Maximum input signal ± 5V Peak Sensitivity, standard settings Accelerometer 100 mV/g Current- and voltage supply to transducer (Infrared photocell) Measuring range 30-12000 RPM (0,5 to 200 Hz) Measuring distance 0,15 to 1 m Measuring object Reflex tape Automatic comparsion with selectable alarm levels Built-in Temperature Sensor Accuracy ± 2 "C Resolution 1 "C To Text Evelope 1 "C Resolution 1 "C Text Evelope 1 "C Resolution 1 "C Text Evelope 1 "C Resolution 1 "C Text Eve	_		Total Vibration Level	
Maximum input signal £ 5V Peak Sensitivity, standard settings Accelerometer 100 mV/g Current- and voltage supply to transducer Max 20V	Vibration Input Electrical Specifications			
Sensitivity, standard settings Accelerometer 100 mV/g Current- and voltage supply to transducer Memory capacity Baring Condition Level, Baring Condition Level and Envelope Level	Maximum input signal	± 5V Peak	`	
Built-in Speed Transducer max 20V Built-in Speed Transducer (Infrared photocell) Measuring distance 0,15 to 1 m Automatic comparsion with selectable alarm levels Automatic comparsion with selectable units metric Selectable units metric 2-800 Hz, 4-1600 Hz, Selectable units metric Selectable units metric mmx, µm, mm, m,/s, g Selectable alarm levels Selectable units metric mmx, µm, mm, m,/s, g Selectable units metric mmx, µm, mm, m/s, g Selectable units metric mmx, µm, m, m		Accelerometer 100 mV/g	Memory capacity	Total Vibration Level, Bearing Condition Level
Measuring range 30-12000 RPM (0,5 to 200 Hz) Same properties as with Total Vibration Level Single plane with vector method and 3-point balancing Measuring distance 0,15 to 1 m Frequency range 2-200 Hz/120-12000 RPM Automatic comparsion with selectable alarm levels 2 different limit values Spectrum in Route Measuring range -20 to +120 °C, adjustable emission factor Memory capacity 999 Spectra Accuracy ± 2 °C Resolution 1.5 Hz, 3.5 Hz, 5 Hz Measuring distance 0.2 to 0.5 m Dynamic measuring range >80dB Automatic comparsion with selectable alarm levels 2 different limit values Dynamic measuring range >80dB Selectable frequency ranges 2-800 Hz, 4-1600 Hz, 18-00 Hz, 19-6400 Hz, 18-00 Hz, 18-00 Hz, 19-00 Hz Graphic display 68x124 pixels with background light Selectable units metric mm/s, μm, mm, m/s, g Main processor Micro processor 38 MHz Selectable type of average RMS, Peak, P-P Power usage at measurements / sleep mode 250 mA > 25 μA > 10 hours of continuous operation Computer communication USB, max 256 kbaud/s Total Envelope Level Power supply 4xR6 2000-2700 mAh recharg				
Measuring distance 0,15 to 1 m Total Vibration Level method and 3-point balancing	Built-in Speed Transducer (Infrared photocell)		Balancing	
Measuring distance 0,15 to 1 m Total Vibration Level method and 3-point balancing Automatic comparsion with selectable alarm levels 2 different limit values Spectrum in Route Built-in Temperature Sensor -20 to +120 °C, adjustable emission factor Memory capacity 999 Spectra Accuracy ± 2 °C Resolution 1.5 Hz, 3.5 Hz, 5 Hz Resolution 1 °C Miscellaneous Measuring distance 0.2 to 0.5 m Dynamic measuring range >80dB Automatic comparsion with selectable alarm levels 2 different limit values Auto Scaling Yes Selectable frequency ranges 2-800 Hz, 4-1600 Hz, 1SO 10-1000 Hz, 1SO 10-1000 Hz Graphic display 68x124 pixels with background light Selectable units metric mm/s, μm, mm, m/s, g Main processor Micro processor 38 MHz Selectable type of average RMS, Peak, P-P Power usage at measurements/ sleep mode 25 μλ > 10 hours of continuous operation Automatic comparsion with selectable alarm levels 1 limit value sleep mode Computer communication USB, max 256 kbaud/s Frequency range 500-6400 Hz Power supply 4xR6 2000-2700 mAh recharge	Measuring range	30-12000 RPM (0,5 to 200 Hz)	Same properties as with	Single plane with vector
Automatic comparsion with selectable alarm levels Built-in Temperature Sensor Measuring range -20 to +120 °C, adjustable emission factor Accuracy ± 2 °C Resolution 1 °C Miscellaneous Dynamic measuring range 2-800 Hz, 8-3200 Hz, 10-6400 Hz	Measuring distance	0,15 to 1 m		
Selectable alarm levels Selectable alarm levels Memory capacity 999 Spectra Built-in Temperature Sensor Memory capacity 999 Spectra Measuring range 2-800 Hz, 8-3200 Hz, 10-6400 Hz Resolution 1.5 Hz, 3.5 Hz, 5 Hz Memory capacity 999 Spectra Accuracy ± 2 °C Resolution 1.5 Hz, 3.5 Hz, 5 Hz Memory capacity 999 Spectra	Measuring object	Reflex tape	Frequency range	2-200 Hz/120-12000 RPM
Built-in Temperature Sensor Memory capacity 999 Spectra Measuring range -20 to +120 °C, adjustable emission factor Frequency range 2-800 Hz, 8-3200 Hz, 10-6400 Hz, 10-6400 Hz Resolution 1 °C Miscellaneous Measuring distance 0.2 to 0.5 m Dynamic measuring range >80dB Automatic comparsion with selectable alarm levels 2 different limit values Auto Scaling Yes Total Vibration Level Selectable frequency ranges 2-800 Hz, 4-1600 Hz, 8-3200 Hz, 10-6400 Hz, 150 10-1000 Hz Graphic display 512 kb Ram, 512 kb Flash, 256 Mb Memory Card Selectable units metric mm/s, μm, mm, m/s, g Main processor Micro processor 38 MHz Selectable units imperial ln/s, mils, thou, g Real time clock Yes Selectable type of average RMS, Peak, P-P Power usage at measurements sleep mode 120 mA/ 25 μA > 10 hours of continuous operation Automatic comparsion with selectable alarm levels 1 limit value Computer communication USB, max 256 kbaud/s Frequency range 500-6400 Hz Min/max environment temperature while measurement -20 to 50 °C Min/max		2 different limit values	Spectrum in Route	
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Measuring range Accuracy				<u> </u>
Accuracy ± 2 °C Resolution 1.5 Hz, 3.5 Hz, 5 Hz Resolution 1 °C Miscellaneous Measuring distance 0.2 to 0.5 m Dynamic measuring range >80dB Automatic comparsion with selectable alarm levels 2 different limit values Auto Scaling Yes Total Vibration Level Internal memory 512 kb Ram, 512 kb Flash, 256 Mb Memory Card Selectable frequency ranges 2-800 Hz, 4-1600 Hz, 3200 Hz, 10-6400 Hz, 1SO 10-1000 Hz, 1SO 10-1000 Hz Graphic display 68x124 pixels with background light Selectable units metric mm/s, μm, mm, m/s, g Main processor Micro processor 38 MHz Selectable type of average RMS, Peak, P-P Power usage at measurements / sleep mode 120 mA/ 25 μA > 10 hours of continuous operation Automatic comparsion with selectable alarm levels 1 limit value Computer communication USB, max 256 kbaud/s Frequency range 500-6400 Hz Min/max environment temperature while measurement -20 to 50 °C Min/max environment temperature while measurement Dimensions 180 x 80 x 40 mm	Measuring range		Frequency range	
Measuring distance 0.2 to 0.5 m Dynamic measuring range >80dB Automatic comparsion with selectable alarm levels 2 different limit values Auto Scaling Yes Selectable frequency ranges 2-800 Hz, 4-1600 Hz, 8-3200 Hz, 10-6400 Hz, 1SO 10-1000 Hz Graphic display 68x124 pixels with background light Selectable units metric mm/s, μm, mm, m/s, g Main processor Micro processor 38 MHz Selectable type of average RMS, Peak, P-P Power usage at measurements / sleep mode 120 mA/ 25 μA > 10 hours of continuous operation Automatic comparsion with selectable alarm levels 1 limit value Computer communication USB, max 256 kbaud/s Total Envelope Level Power supply 4xR6 2000-2700 mAh rechargeable NiMh batteries Envelope level within the frequency range 1-1000 Hz Min/max environment temperature while measurement -20 to 50 °C Unit gE RMS Automatic comparsion with 1 limit value Dimensions 180 x 80 x 40 mm	Accuracy		Resolution	1.5 Hz, 3.5 Hz, 5 Hz
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Selectable units metricmm/s, μm, mm, m/s, gMain processorMicro processor 38 MHzSelectable units imperialln/s, mils, thou, gReal time clockYesSelectable type of averageRMS, Peak, P-PPower usage at measurements / sleep mode120 mA/ 25 μA > 10 hours of continuous operationAutomatic comparsion with selectable alarm levels1 limit valueComputer communicationUSB, max 256 kbaud/sTotal Envelope LevelPower supply4xR6 2000-2700 mAh rechargeable NiMh batteriesEnvelope level within the frequency range1-1000 HzMin/max environment temperature while measurement-20 to 50 °CUnitgE RMSDimensions180 x 80 x 40 mm	Selectable frequency ranges	8-3200 Hz, 10-6400 Hz,		68x124 pixels with
Selectable type of average RMS, Peak, P-P Power usage at measurements / sleep mode 120 mA/ 25 μA > 10 hours of continuous operation Automatic comparsion with selectable alarm levels 1 limit value Computer communication USB, max 256 kbaud/s Frequency range 500-6400 Hz Power supply 4xR6 2000-2700 mAh rechargeable NiMh batteries Envelope level within the frequency range 1-1000 Hz Min/max environment temperature while measurement -20 to 50 °C Unit gE RMS Dimensions 180 x 80 x 40 mm	Selectable units metric		Main processor	Micro processor 38 MHz
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Automatic comparsion with Automatic comparsion with Dimensions 180 x 80 x 40 mm	Envelope level within the frequency range	1-1000 Hz	temperature while	-20 to 50 °C
Automatic comparsion with		gE RMS		180 x 80 x 40 mm
selectable alarm levels Weight 4XU grams including hatteries	Automatic comparsion with selectable alarm levels	1 limit value	Weight	480 grams including batteries

VMI International AB

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