X-Viber™

SMART PRODUCTS FOR SMART PEOPLE

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

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

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Technical data X-VIBER

Strandard Vibration Transducer VMI 199-28	
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
Mounting	Magnetic holder, hand held or measuring pointer
Cable length	1 m
Vibration Input Electrical Specifications	
Maximum input signal	± 5V Peak
Sensitivity, standard settings	Accelerometer 100 mV/g
Current- and voltage supply to transducer	2.1 mA constant current max 20V
Built-in Speed 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	2 different limit values
Built-in Temperature Sensor	
Measuring range	-20 to +120 °C, adjustable emission factor
Accuracy	± 2 °C
Resolution	1 °C
Measuring distance	0.2 to 0.5 m
Automatic comparsion with selectable alarm levels	2 different limit values
Total Vibration Level	
Selectable frequency ranges	2-800 Hz, 4-1600 Hz, 8-3200 Hz, 10-6400 Hz, ISO 10-1000 Hz
Selectable units metric	mm/s, µm, mm, m/s, g
Selectable units imperial	ln/s, mils, thou, g
Selectable type of average	RMS, Peak, P-P
Automatic comparsion with selectable alarm levels	1 limit value
Total Envelope Level	
Frequency range	500-6400 Hz
Envelope level within the frequency range	1-1000 Hz
Unit	gE RMS
Automatic comparsion with selectable alarm levels	1 limit value

Total Bearing Condition Value	
Frequency at Bearing Condition	Selectable between 0.5-6.4 kHz, 1-8 kHz, 2-8 kHz, 3-8 kHz
Unit	g RMS
Automatic comparsion with selectable alarm levels	1 limit value
Analysis	
Same properties as with Total Vibration Level	Automatic analysis of 5 highest frequencies with the highest levels
Route (Downloaded from the X-trend PC software)	
Memory capacity	999 measuring points including Total Vibration Level, Bearing Condition Level and Envelope Level
Balancing	
Same properties as with Total Vibration Level	Single plane with vector method and 3-point balancing
Frequency range	2-200 Hz/120-12000 RPM
Spectrum in Route	
Memory capacity	999 Spectra
Frequency range	2-800 Hz, 8-3200 Hz, 10-6400 Hz
Resolution	1.5 Hz, 3.5 Hz, 5 Hz
Miscellaneous	
Dynamic measuring range	>80dB
Auto Scaling	Yes
Internal memory	512 kb Ram, 512 kb Flash, 256 Mb Memory Card
Graphic display	68x124 pixels with background light
Main processor	Micro processor 38 MHz
Real time clock	Yes
Power usage at measurements / sleep mode	120 mA/ 25 µA > 10 hours of continuous operation
Computer communication	USB, max 256 kbaud/s
Power supply	4xR6 2000-2700 mAh rechargeable NiMh batteries
Min/max environment temperature while measurement	-20 to 50 °C
Dimensions	180 x 80 x 40 mm
Weight	480 grams including batteries

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