

# X-Viber

Analysis and Route instrument with transfer to X-Trend PC-software trough USB



## Measurements:

- Route via X-Trend pc-software
- Total level
- Envelope
- Bearing Condition
- Analysis
- Temperature
- Speed

## Selectable:

- Measuring unit
- Average
- Frequency range
- Alarm levels
- Database and analysis in X-Trend software

## Options:

- Data logging
- Single plane balancing with the 3-point method
- Single plane balancing with the vector method
- Amplitude and phase measurements



## Options:

- Spectrum storage in route
- Analysis software SpectraPro(lite)

# Measurement possibilities

**Route window**

Department #1	1
Machine #1	92
Point #1	☹
Vertical	
17.16	mm/s rms

**Data Logger saves up to 15000 measurements  
Option: can be opened with special code**

**The Star here indicates that Bearing Condition and Envelope are measured simultaneously as the Vibration**

**Analysis possibilities at off route measurements**

**Options: can be opened with special codes**

**MAIN MENU**

Measurements  
Route  
**Communication**  
Info  
Data Logger  
**Set date/time**

26-04-2006 11:51:18

**Measurements**

Total value  
Bearing condition  
Envelope  
Speed  
Temperature  
Analysis  
Amplitude&phase  
Single plane bal.  
**3-Point balancing**

**Total value**

**1.97**

mm/s rms

2-800 Hz **Hold**

**Bearing condition**

**0.193**

g ☺

500-7200Hz **Hold**

**Envelope**

**0.17**

gE ☺

**Hold**

**Speed**

**2962**

RPM ☹

**Hold**

**Temperature**

**24**

°C

0.98

TOTAL	1-FILTERED
1.97	1.54
mm/s rms	
800Hz	2966CPM
<b>Hold</b>	

**This box shows the total vibration within the selected frequency range**

**The 5 highest vibrations can be shown**

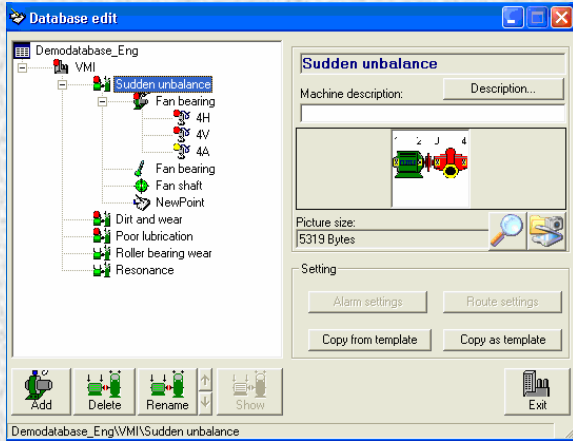
**This box shows the highest vibration**

**This box shows the speed or frequency of the highest vibration**



# Communication and analysis

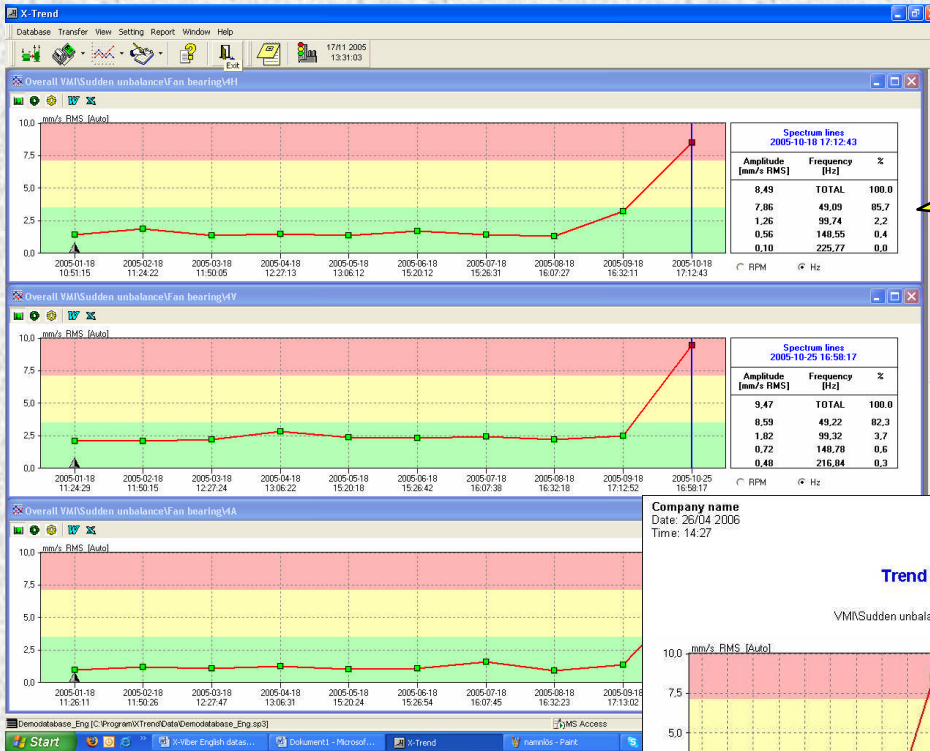
Edit database



Load and collect route information from X-Viber



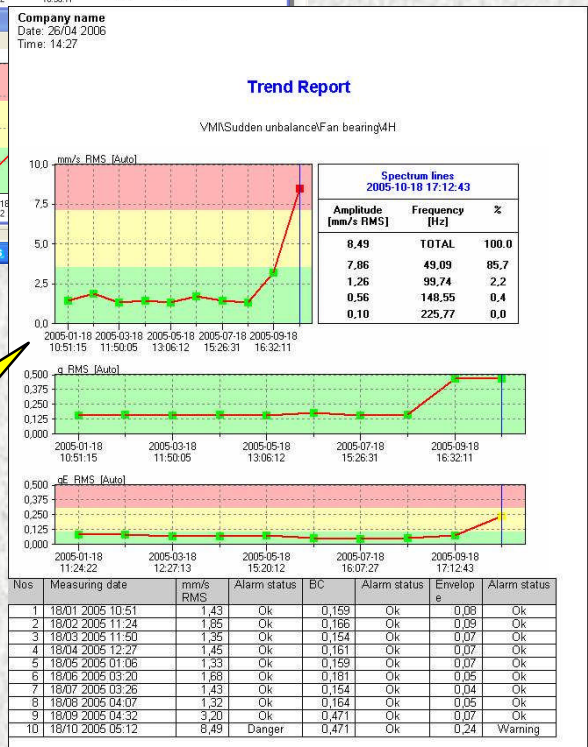
Analysing the trend information



Extended analysis with level and frequency of the 5 highest vibrations

Automatic pre-made reports for:

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



# Technical data

<b>Transducers</b>	
<b>Standard vibration transducer</b>	<b>Accelerometer type ACC199-28</b>
Sensitivity	100mv/g max measuring range ±50g
Frequency range (+/-3db)	0.5-15000Hz
Resonance frequency	34000Hz
Temperature range	-50°C ... +121°C
Mounting	Magnet holder, hand held or measuring pointer
Cable length	1m
<b>Vibration input electrical specifications</b>	
Maximum input signal	+/-5V Peak
Sensitivity, standard settings	Accelerometer 100mV/g
Current- and voltage supply to transducer	+2.1 mA constant current at max 20V
<b>Built-in speed transducer (tacho)</b>	<b>Infrared photocell</b>
Measuring range	30 – 120.000 rpm corresponding to 0.5 -200Hz
Measuring distance	0.15 – 1m
Measuring object	Reflex tape on the shaft
Automatic comparison with selectable alarm levels	Yes, 2 different limit values
<b>Built-in temperature sensor</b>	
Measuring range	-20 to +120°C, adjustable emission factor
Accuracy	±2°C
Resolution	1°C
Measuring distance	0.2 till 0.5m
Automatic comparison with selectable alarm levels	Yes, 2 different limit values
<b>Measuring properties</b>	
<b>Total vibration level:</b>	
Selectable frequency ranges	2-800Hz, 4-1600Hz, 8-3200Hz, 10-6400Hz and ISO 10-1000Hz
Selectable units, Metric	mm/s, um, mm, m/s, g
Selectable units, Imperial	in/s, mils, thou, g
Selectable type of average	RMS, Peak, P-P
Automatic comparison with selectable alarm level	Yes, 1 limit value
<b>Total Envelope level</b>	
Frequency range	500 - 6400Hz
Envelope level within the frequency range	1 – 1000Hz
Unit	gE RMS
Automatic comparison with selectable alarm level	Yes, 1 limit value
<b>Total Bearing Condition value</b>	
Frequency range at Bearing Condition	Selectable between 0.5 – 6.4kHz, 1 -8kHz, 2 – 8kHz, 3 -8kHz
Unit	g RMS
Automatic comparison with selectable alarm level	Yes, 1 limit value
<b>Analysis</b>	
	Same properties as with Total vibration level
	Automatic analysis of 5 frequencies with the highest levels
<b>Route</b>	
Memory capacity	Downloaded from the X-Trend PC-software Appr. 999 measuring points, including Total vibration level, Bearing Condition level and Envelope level
<b>Spectra in Route (Option)</b>	
Memory capacity	Appr. 999 spectra
Frequency range	2-800Hz, 8-3200Hz, 10-6400Hz
Resolution	1.5Hz, 3.5Hz, 5Hz
<b>Miscellaneous</b>	
Dynamic measuring range	>80dB
Auto scaling	Yes
Main processor	Micro processor 38Mhz
Internal memory	512kb Flash, 512kb RAM, 64Mb Memory Card
Graphic Display	68x124 pixels with background light
Real time Clock	Yes
Computer communication	USB max 256kbaud/s
Power supply	4 x R6 2000mA rechargeable Nimh batteries
Power usage at measurement / sleep mode	120mA / 25uA ≈ 10 hours of continuous operation
Min/max environment temperature while measuring	-20°C ... +50°C
Dimensions	180 x 80 x 40mm
Weight	400grams including batteries



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