

VIBER X3™



Viber X3™ is designed for maintenance/repairer and operators personnel.

It is an excellent tool for basic condition monitoring checks, easy to use and reliable for status analyse. Measurements can be stored and trended for reliable condition monitoring.

PC-software included.

The **Viber X3** instrument has the following features:

- Accurate measurements for 3 selectable frequency ranges.
- Real-time measurement of the total vibration level and the Bearing Condition (BC), shown simultaneously.
- The largest amplitude peak frequency in CPM or Hz in main screen display.
- Fast and easy fault analysis screen displaying the five highest peaks with amplitude and frequency one by one.
- Headphone set with volume control and high pass filter for bearing noise detection.
- Listening to bearing sound while comparing the displayed BC value.
- Measurement units and measurement presentation may be selected by the user from the following list:
 - g (RMS, Peak or Peak-Peak)
 - mm/sec (RMS, Peak or Peak-Peak)
 - µm (RMS, Peak or Peak-Peak)
 - inch/sec (RMS, Peak or Peak-Peak)
 - mills (RMS, Peak or Peak-Peak)
- Bearing Condition measurements in a wide frequency range (0, 5 - 16 kHz).
- 100 measurements can be stored
- PC-software included
- Built-in infrared temperature sensor, units in °C r °F.
- Bar indicator shows measurement stability.
- Large dynamic range of the vibration signal (up to 50 g).
- High performance accelerometer.
- Clear vibration, temperature and danger alarms by red and yellow colour LED's.
- Easy to understand and operate.
- Fast battery charging capability using an external charger, provided in the delivery.
- Advanced technology with DSP processor.
- Display with backlight.
- Several languages are available.
- Adjustable Auto-shut off for energy saving.
- Dust and waterproof, for rough use (IP 65).

Technical data

Vibration transducer	Accelerometer	Standard 100 mV/g±5%	
Input amplitude range	Vibration	50 g RMS	With other sensor up to 500 g.
	Bearing Condition	5 g BC	
Frequency range	Vibration	2 - 400 Hz 4 - 1600 Hz 6 - 3200 Hz 10 - 1000 Hz	Note 1 Note 2
		Bearing Condition	500 Hz to 16 kHz Note 2
Vibration units	g, mm/s, µm, in/s, mils		Note 3
Amplitude presentation	RMS, Peak, Peak-Peak		Note 3
Analysis	First five peaks can be displayed		Note 3a
Frequency of the highest peak	Frequency range	Highest peak range	Note 4
	2 - 400 Hz	2 - 400 Hz	
	4 - 1600 Hz	4 - 1600 Hz	
	6 - 3200 Hz	8 - 2000 Hz	
	10 - 1000 Hz	10 - 1000 Hz	
Sound frequency Filter enabled	10 Hz - 10 kHz	+26dB to -66,5dB	
	500 Hz - 10 kHz	+26dB to -66,5dB	
Temperatur sensor Range	Built-in infrared sensor		
	0 to 140°C		
Accuracy	Vibration	± 3%	Note 5
	Bearing Condition	± 5%	Note 5
	Frequency	± 0,5 Hz	Note 5
	Temperature	± 1° C	
Battery	Lithium, NiMH		
Operating time	Min. 24 hours for a full charged battery pack.		Note 6
External charger	7.5 V regulated @ 1000mA		
LCD display	B&W 64X100 pixels with background light		
Power consumption	Running	100 mA (average)	
	Sleep mode	Less than 40µA	
Enclosure protection	IP 65		
Operating temp. Range	-20 to 80°C		Note 7
Weight	440 g		Note 8

Ver: 3.0

Note 1. User selectable, for non-integrating measurement units

Note 2. Hardware high pass filter with -3dB attenuation at 475Hz. BC Extended 0.5 to 30 kHz (-3dB)

Note 3. User selectable

Note 3a. The amplitude and frequency are calculated between the spectrum lines as follows:

- For frequency ranges 2÷1600 Hz and 10÷1000Hz, above 10 Hz
- For frequency range 4÷3200 Hz, above 20 Hz

Note 4. User selectable unit, between Hz and CPM.

Note 5. Full scale is 50g for acceleration, 200 mm/s for velocity and 3000µm for displacement.

Less than -3dB attenuation for lower frequencies

Note 6. Battery operating time depends on use of back light (adds about 40mA) and type of battery used.

Note 7. Storage temperature from -20°C to 90°C.

Note 8. Instrument including case, battery and transducer.

Product of SWEDEN

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