VIBER X3™

SMART PRODUCTS FOR SMART PEOPLE

Developed for vibration analysts, machine operators, and maintenance technicians. Easy to use, powerful for basic condition monitoring. Helps in maintaining machine reliability and verifying machinery repair. Store and trend condition data with Trend View.

Screen descriptions

25.80
mm/s rms

6-1600 Hz

Peak: 1

25.74

2975 RPM

Stable

****

→ Indicates battery status if it is charging

→ Total value

→ Measurement Stability bar

→ Frequency range

→ Peak number

→ Amplitude

→ Frequency/RPM

→ Measurement status

→ If alarm is activated levels will be displayed if not **** are displayed

Instrument settings

Item	Value	Notes
Backlight	ENABLED or DISABLED	
Auto-shutoff	ENABLED or DISABLED	Shutoff after 60 seconds
Setting	20 sec, 30 sec, 40 sec, 1 min, 2 min and 3 min	Set the Auto-shutoff time
Units	g (RMS, Peak or P-P) m/s² (RMS, Peak or P-P) mm/s (RMS, Peak or P-P) µm (RMS, Peak or P-P) inch/sec (RMS, Peak or P-P) mills (RMS, Peak or P-P)	
Range	2 - 400 Hz 6 - 1600 Hz 11 - 3200 Hz 10 - 1000 Hz	
Alarm *	ENABLED or DISABLED	
Warning **	Default value 6.00	Keep key pressed to auto-repeat
Danger	Default value 11.0	Keep key pressed to auto-repeat
Language		(Depending on firmware version)*
Sensitivity (mV/g)	During calibration the transducer sensitivity can be adjusted between 80 to 120 mV/g	Do not change after instrument calibration. Set sensitivity in accordance with the transducers
Transducer power	ENABLED or DISABLED	4 mA for accelerometer
Frequency	RPM or Hz	

* Can only be set for unit mm/s and in/s RMS
** Standard languages are: English, Swedish, French, German, Czech, Romanian, Spanish, Portuguese and Finnish. For other language please contact your instrument supplier for avaliability.

VIBER X3™

- The only instrument to use for balancing, vibration, infrared, and high frequency sound in one compact, easy to use instrument.
- Powerful, inexpensive instrument to be used by vibration analyst, maintenance technician, or machniery operator.
- Smallest balancing instrument available, easy to carry.
- Use to verify machinery repair.
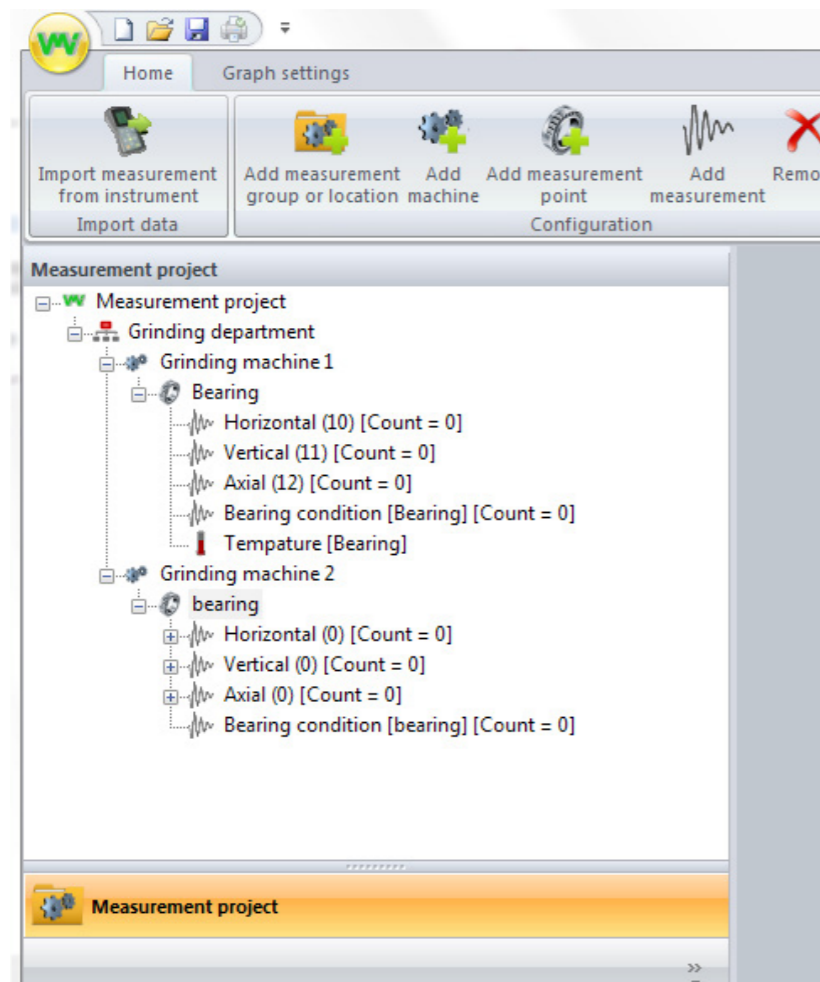- PC-software for reports and trends is included.

Complete delivery includes:

IP68 Case

Instrument

Transducer

Headphones

Extention tip

Charger

Rechargeable batteries

Cable for data transmission

For more information, contact VMI International AB or authorized VMI distributor. Visit us at www. vmiab.com

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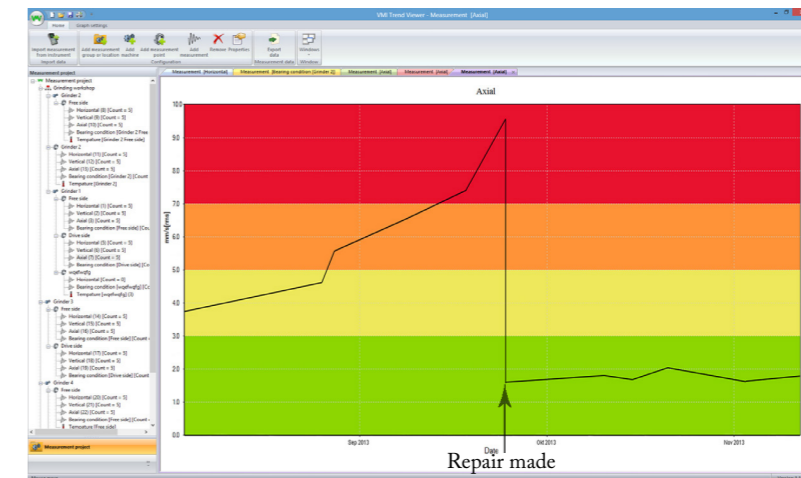
Trend View Software

- Easy to use, intuitive software
- Build machine and measuring points
- Collect data
- Trend measurements
- Determine machine problem
- Take corrective action
- Increase machinery uptime
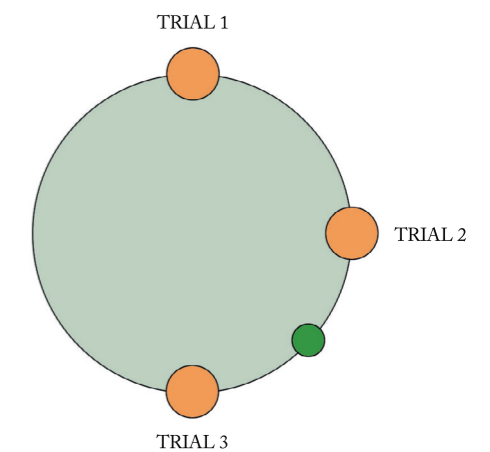

Trend View Software

Balancing report

Balancing results

Weight	150 g
Angle	212 °
Improvement	92 °
Acceleration	0.0 g [rms]
Velocity	2.3 mm/s [rms]
Displacements	0.0 µm [rms]

Technical data VIBER X3™

Vibration transducer	Accelerometer	Standard 100 mV/g ± 10%	(Selectable sensitivity in the instrument)
Input amplitude range	Vibration	Max 50 g RMS	With other sensor up to 500 g
	Bearing condition	Max 5 gBC	
Dynamic range	80 dB (156,08 Hz with auto ranging)		
Frequency range	Vibration	2 - 400 Hz 10 - 1000 Hz 6 - 1600 Hz 11 - 3200 Hz	User selectable
	Bearing condition	0,5 to 16 kHz	
Vibration units	g-value, m/s², mm/s, in/s, µm, mils		User selectable
Amplitude presentation	RMS, Peak, Peak-Peak		User selectable
Analysis	Five highest peaks can be displayed		VMI Trend View Software included for PC
Frequency range of peak detection	**Frequency range**		User selectable unit, between Hz and RPM
	2 - 400 Hz		
	6 - 1600 Hz		
	11 - 2000 Hz		
	10 - 1000 Hz		
Storage capacity	100 measurements can be stored		
Three-point balancing	10 balancing results can be stored		
Communication interface	USB 2.0		
Sound frequency Filter enabled	60 Hz - 10 kHz	+26 dB to -4.1 dB	
	500 Hz - 10 kHz	+26 dB to -4.1 dB	
Temperature sensor Range	Built-in infrared sensor		
	0 to 120 °C		
Accuracy	Vibration	± 3 %	Full scale is 50g for acceleration other units are frequency dependent
	Bearing Condition	± 5%	Over 0.03 gBC.
	Frequency/RPM	± 0.5 Hz/ ± 30 RPM	
	Temperature	± 1 °C	Emissivity factor must be set in accordance with the target surface.
Battery	Rechargeable Lithium	2300 mA/h, max 60 °C	Capacity of the batteries can vary depending on hardware revision. Max 2300 mAh. (Storage temp. -20 to max 60 °C)
Operating time	1 week normal use		Operating time depends on backlight, volume level and batteries used. Backlight adds 40mA and the sound volume up to 150mA. Charging time is approx: 6-12 hours.
External charger	5,0 V regulated @ 2000 mA		
LCD display	B&W 64 x 120 pixels with background light		Operating temp. min 0 °C to max 50 °C, storage temp. max 72 °C
Enclosure protection	IP 65		
Operating temp. range	0 to 50 °C		The restriction concerns display
Weight	415 gram		Instrument, including battery and transducer
Size (LxWxH)	165mm x 80mm x 50mm		

OBS. If changing to another accelerometer, the sensitivity (mV/g) have to be changed. This is done in the menu under "Transducer".

Other VMI International AB products

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VMI International AB

Sweden

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