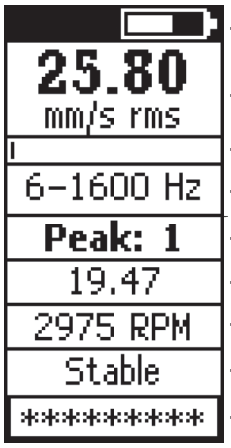
VIBER X3™

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



- Indicates battery status or charging
- Total value and unit
- 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
Backlight	ENABLED or DISABLED
Auto-shutoff	ENABLED or DISABLED
Setting	20 sec, 30, sec, 40 sec, 1 min, 2 min and 3 min
Units	g (RMS, Peak or P-P) m/s^2 (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) mils (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 4.5
Danger	Default value 11.0
Language **	
Sensitivity (mV/g)	The transducer sensitivity can be adjusted
Transducer power	ENABLED or DISABLED
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 and high frequency sound in one compact, easy to use instrument.
- Powerful, inexpensive instrument to be used by vibration analyst, maintenance technician, or machinery 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

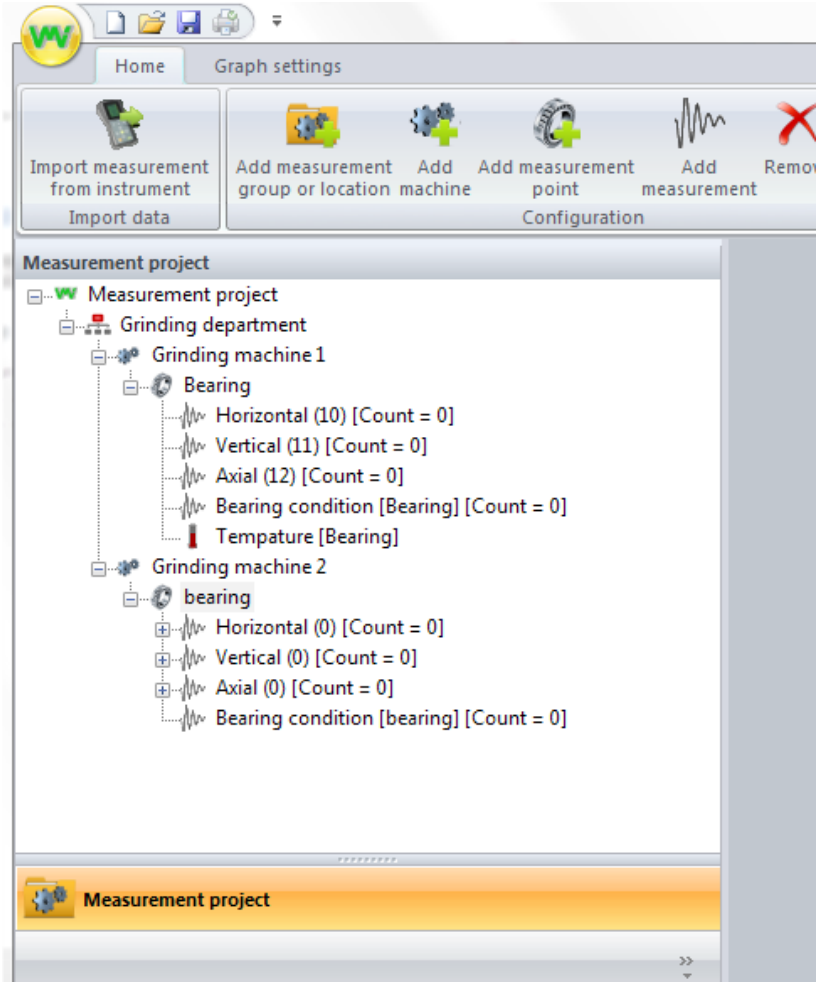
Charger

Rechargeable batteries

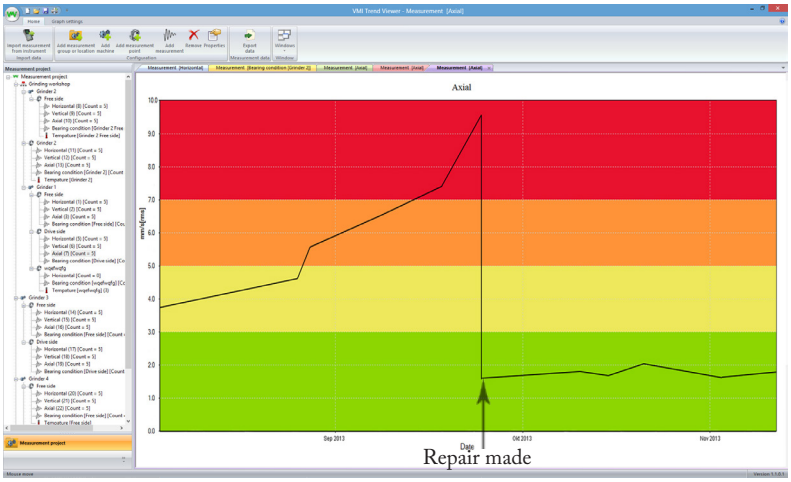
Cable for data transmission

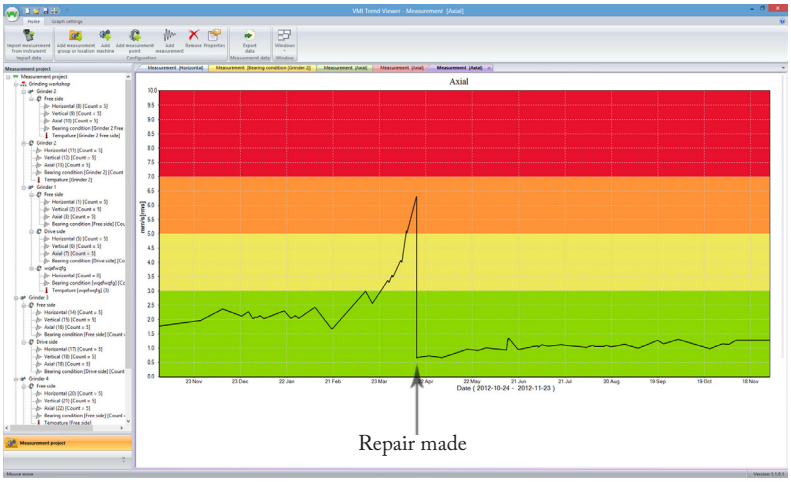
Trend View Software

- 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

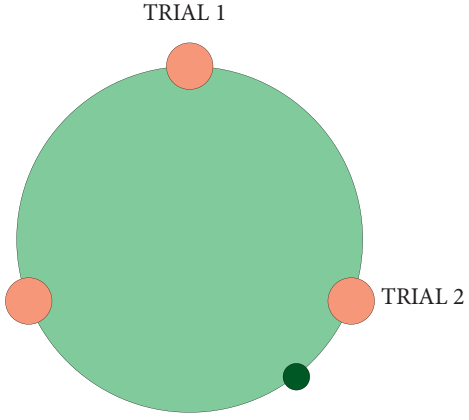




Balancing report

Balancing results

Weight	150 g	
Angle	212 °	
Improvement	92 %	
Velocity		2.3 mm/s [rms]



Technical data VIBER X3™

Vibration transducer	Accelerometer	Standard nom 100 mV/g	(Selectable sensitivity in the instrument) 0,1 - 99999 mV/g
Input amplitude range	Vibration	Max 50 g RMS	With other sensor up to 500 g
	Bearing condition	Max 30 gBC	
Dynamic range	80 dB (159 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/s^2, 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		Same as ”frequency range”, except for 11-3200 Hz range, where peak detection ends at 2000 Hz
	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		Temp. Sensor measures down to -20°C but the instrument ambient temp. must be 0°C or higher
	-20 to +120°C		
Accuracy	Vibration	± 3 %	Full scale is 50 g for acceleration other units are frequency dependent
	Bearing condition	± 5 %	Over 0.5 gBC
	Frequency/RPM	± 0,2 %	
	Temperature		Emissivity factor must be set in accordance with the target surface
Battery	Rechrageable Lithium	2300 mA/h, max 60°C	Capacity of the batteries can vary depending on hardware revision. Max 2300 mA/h. (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 150 mA. 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	IP65		
Operating temp. range	0 to 50°C		The restriction concerns the display
Weight	415 gram		Instrument, including battery and transducer
Size (L x W x H)	165 mm 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

Vibration Measurement Instruments

VMI International AB

Sweden

www.vmiab.com