

make
MAINTENANCE
A PROFITABLE
PART OF YOUR
PRODUCTION

VIB CHECKER

vibration monitoring
to go™

SPM...



Vibration monitoring is a cost-effective predictive maintenance strategy. Changes in the vibration level always imply changes in operating condition, but in most cases, vibration measurement can detect a problem long before the machine is damaged. Conducting regular vibration measurements on fans, motors, pumps, compressors, and other rotating industrial machinery can help prevent premature replacement of machine parts and minimize downtime.



Machine vibration is the cause of many problems in industrial equipment. When integrated in your normal maintenance activities, periodic vibration measurement with VibChecker will go a long way to help keep your equipment operational. The instrument provides early detection of problems such as imbalance, misalignment, looseness, and gear mesh. Suited to both new and experienced users, VibChecker covers the basic vibration monitoring needs in predictive maintenance.



VibChecker combines ease of use with cost effectiveness and durability. Designed for quick and accurate on-site vibration checks, VibChecker makes a proactive approach to maintenance economically feasible for everyone. A practical and user-friendly complement to your maintenance toolbox, it is a reliable instrument for first-line assessment of vibration severity. Without specialized training, maintenance technicians can measure, analyze, and record vibration data.

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VibChecker is a compact-sized instrument for vibration measurement in the 10-1000 Hz frequency range. Measurement results are immediately and automatically evaluated against ISO standards with a clear, intuitive indication of vibration severity. Time signals and real-time FFT spectrums enable easy pattern recognition. Measurement results can be stored for trending of vibration levels and follow-up.

Used with a built-in probe or external transducer, the easy button operation and intuitive symbols make VibChecker an ideal tool for simple and convenient detection of vibration-related problems.



Using a built-in or external transducer, VibChecker measures RMS vibration levels as units of velocity, displacement, and acceleration, as well as vibration severity according to ISO 2372/10816.

With a 2.4" color screen and push-button operation, the instrument is designed for ease of use.



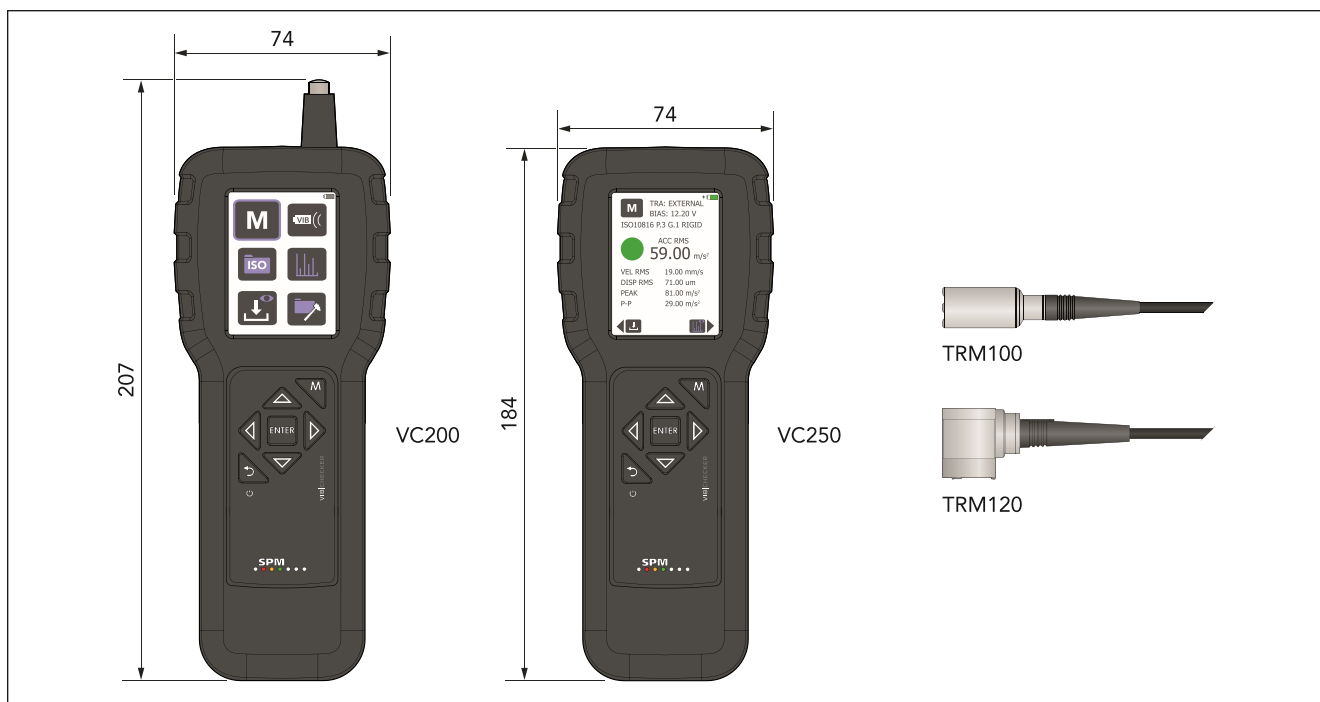
Rated IP65, VibChecker can be used under the environmental conditions encountered in most industries.

The VibChecker instrument can be used to effectively monitor vibration levels in most types of rotating machinery, such as electric motors, fans, and pumps, in a diversity of industrial environments.

KEY FEATURES:

- Ergonomic design
- Color screen
- Intuitive graphical user interface
- Push-button operation
- Lightweight
- Rated IP65
- USB battery charging
- External or internal transducer

VibChecker



VibChecker is an instrument for fast and easy measurement of machine condition in preventive maintenance. It is based on the recommendations of ISO 2372 and ISO 10816 standards for broad band measurements of vibration. These standards make the assumption that limited information, obtained easily and at a low cost, is often as useful as a detailed analysis using expensive equipment and elaborate techniques.

The instrument measures either with a built-in probe (VC200) or with an external transducer. It is push button controlled and basic measurement data are entered manually. Evaluated measuring results are indicated by green-yellow-red symbols, and a time signal and its FFT spectrum are produced for easy pattern recognition. Measurement results can also be transferred to a file for further processing, e.g. in Microsoft Excel.

Technical specifications

Frequency range:	10 to 1000 Hz
Readings:	RMS/peak/peak-to-peak
Measuring range (sinus signal and 100 mV/g accelerometer):	
Velocity RMS	100 mm/s (4 ips) at 80 Hz
Acceleration RMS	100 m/s ² (10 g) at 10-1000 Hz
Displacement RMS	100 µm (4 mil) at 80 Hz
Condition evaluation:	according to ISO 2372 and ISO 10816 Part 2, 3, 4 > 600 rpm
Spectrum:	linear, 200/400/800 lines, Hanning window, Hz/cpm, zoom, RPM markers
Time signal:	512/1024/2048 samples, zoom, marker
General functions:	battery status, transducer check, metric or imperial units, language independent menus, storage of up to 10 measuring samples
Condition indication:	green, yellow and red symbols
Display:	2.4" Color TFT LCD Display
Keypad:	sealed, snap action
Material, casing:	copolyester/TPE
Protection class:	IP65
Power supply:	3.63 V Lithium Ion, USB rechargeable
Battery life:	> 25 hours of normal use
Internal transducer:	accelerometer type MEMS
Input connector:	mini coax, for external transducer

External transducers:	vibration transducer TRM100/ TRM120 or IEPE (ICP®) type transducers with voltage output
Output connector:	mini-B USB
Operating temperature:	-10 °C to +50 °C (14 °F to 122 °F)
Size:	VC200: 207x74x41 mm (8.1x2.9x1.6 in) VC250: 184x74x41 mm (7.2x2.9x1.6 in)
Weight:	VC200: 335 g (11.8 ounces) VC250: 300 g (10.6 ounces)

Part numbers

VC200	VibChecker with probe, excl. options
VC250	VibChecker without probe, excl. options

Options

CAB52	Measuring cable, 1.5 m, mini coax - BNC slip-on
CAB78	Measuring cable, 1.5 m, mini coax - 2 pin
CAB94	Charger cable, USB type A to mini-B USB, 1.5 m
CAS30	Carrying case, plastic with foam inlay set, 390x310x147 mm
TRM100	Transducer with integral magnet, straight, 1.5 m
TRM120	Transducer with integral magnet, angled, 1.5 m
18226	Kit for screen protection (2 pcs screen protector)
90647	Charger, 100-240 V, 50-60 Hz, 6 W
93363	Cable adapter, mini coax - BNC
93062	Cable adapter, BNC - TNC, plug-jack

