

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.

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 um (4 mil) at 80 Hz
Condition evaluation:	according to ISO2372 and ISO10816 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

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.

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
18103	Cable adapter, mini-B USB to 3.5 mm stereo jack
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

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