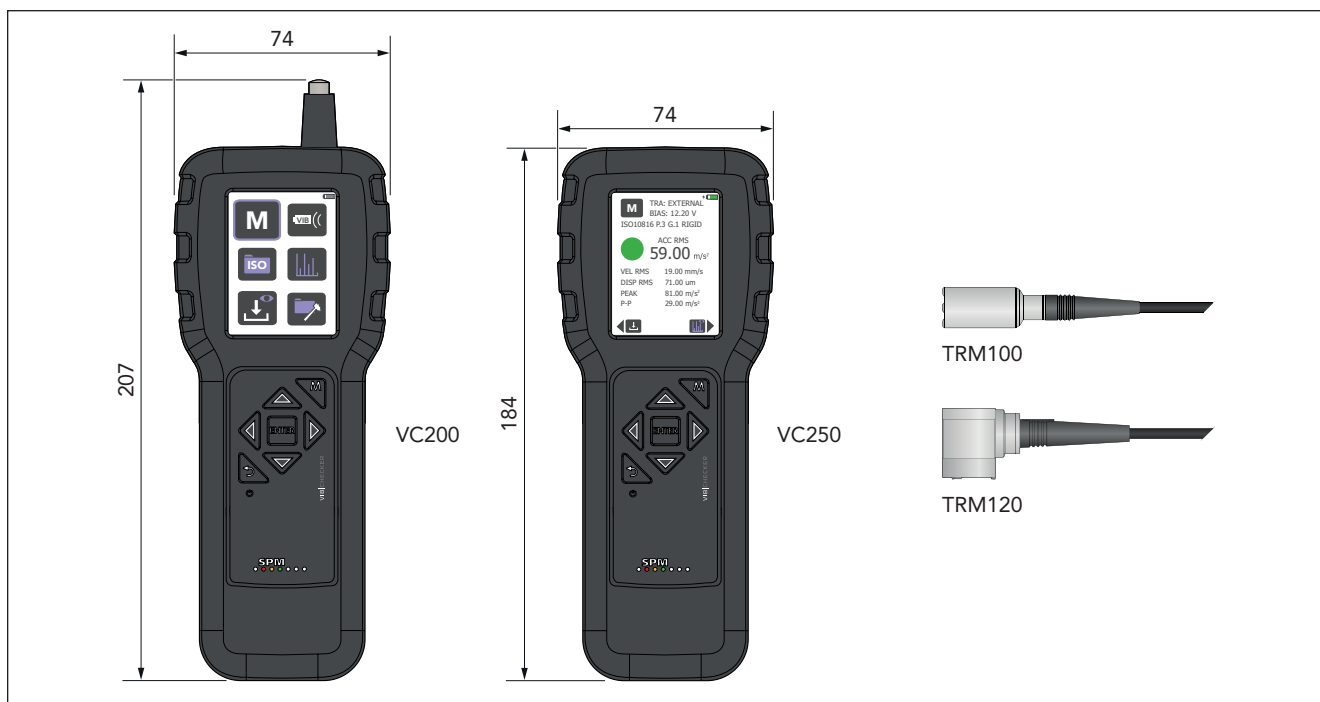


VibChecker



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.

For prepared kits containing instruments, carrying case, charger, charger cable, etc., see TD-573.

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 (inaccuracy 0.15 mm/s \pm 3%)
 Acceleration RMS 100 m/s² (10 g) at 10-1000 Hz
 Displacement RMS 100 μ m (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

