VibChecker



VibChecker is an instrument for fast and measure-ment of machine condition in preventive maintenance. It is based on the recommendations of ISO 2372 and ISO 10816 standards for broad band measurements of vi-bration. 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 $100 \text{ m/s}^2 (10 \text{ g}) \text{ at } 10\text{-}1000 \text{ Hz}$ Acceleration RMS Displacement RMS 100 um (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

512/1024/2048 samples, zoom, Time signal:

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

IP65 Protection class:

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

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 manu-ally. 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.

External transducers: vibration transducer TRM100/

> TRM120 or IEPE (ICP®) type transducers with voltage output

mini-B USB Output connector:

Operating temperature: -10 °C to +50 °C (14 °F to 122 °F)

VC200: 207x74x41 mm Size:

> (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

CE

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