

Vibration Analyzer Device VAD1.03

Advanced data collector, Vibration analyzer and rotor balancer



Beta Vibration Analyzer VAD series



The Beta **VAD1.03** Analyzer is an advanced, large screen route-based analyzer offered by Beta. It enables users to easily perform periodic monitoring of their rotating machines. With its comprehensive features, the Beta **VAD1.03** Analyzer allows quick capture of a wide range of vibration data. This analyzer offers the flexibility to support applications that are crucial to your company's specific predictive maintenance program.

Key features

- Simultaneous dual channel measurements for fast data collection
- Rechargeable lithium battery supports eight hours of continuous data collection
- The large 7-inch VGA color touchscreen display ensures easy viewing and analysis in any lighting conditions
- Wi-Fi data transfer
- portable vibration analyzer (offroute, online measurement, orbit analysis, live phase measurement and rotor balancer)

Technical specifications

- Housing: ABS/IP65
- Dimensions: 200 x 200 x 55 mm
- Weight: 1100 g
- Operating temperature: -20 to 50 °C
- Memory: 256 Mb RAM
- SD memory card: Up to 32 GB
- Frequency range: 0 to 16 kHz
- Dynamic range: up to 109 dB
- Spectrum lines: 200, 400, 800, 1600, 3200,12800
- Meas. Windows: Rectangular, Hanning, Hamming and Flat Top

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Vibration analyser

- Route definition without limitation
- Acceleration, velocity and displacement are displayed for each measurement time
- BCU and envelope analysis for bearing fault diagnosis
- Overall values
- Definition of alarm for velocity signal

Rotor balancing

- One plane, two-plane and four run dynamic balancing
- Trial weight estimation
- Tools to split or merge weights
- Easy to use with the “guided” mode
- Result assessment according to ISO 1940
- Graphic display of measurements and weight positions

Orbit analysis

- Route definition without limitation
- RMS of X and Y and measurements
- Acceleration and displacement orbit plot
- Designation magnitude and phase of maximum point on the plot
- Filtered orbit plot for 1X to 5X frequencies
- Definition of alarm levels for X and Y signals

Live phase

- Absolute phase measurement with one vibration transducer and tachometer reference
- Relative phase (cross channel phase) measurement with two vibration transducers
- Spectrum lines: 200, 400, 800, 1600
- Meas. Windows: Rectangular, Hanning, Hamming, and Flat Top
- Upper frequency limit: 250 Hz to 2000 Hz
- Filtered phase measurement for 1X to 10X frequencies

Online Meas.

- Online measurement of time signal and spectrum of velocity and acceleration
- Online RPM, BCU and overall value measurement
- Spectrum peak detection
- Spectrum 1X to 3X frequencies

VibTrender PC software

- Route definition and management without limitation
- Database backup
- Report generation option
- Database of more than 9000 bearings
- Default component and measuring point definition
- Record and store the historical data of measurements