

## Vibration Analyzer Data collector 107VF

A powerful yet compact vibration analyser designed to measure overall vibration parameters and facilitate FFT spectrum analysis of rotating equipment.

- Measurement of vibration velocity, displacement and acceleration with ISO 10816 standards
- Trend vibration data with ConSpect software
- Spectral analysis of vibration (FFT)
- Time Waveform Analysis
- Display Peak-peak, RMS and peak vibration values
- Built-in rechargeable battery
- Optional non-contact infrared tachometer for measuring the rotational speed
- Optional temperature measurement and advance route management software VibAnalyst



### Specifications:

Amplifier type	Charge or ICP (piezoelectric accelerometers)
Signal	VHC, Peak-Peak, 0-Peak, RMS
Measured parameters	Acceleration, Velocity, displacement, frequency, audio output
Frequency range	1 Hz to 10 kHz

### Dynamic frequency range :

Acceleration	1 - 10,000 Hz (-3 dB) and 0.01 - 500 m/s <sup>2</sup>
Velocity	1 - 16 Hz (-3 dB) and 0.8 - 5000 mm/s 1-80Hz (-3dB) and 0.2 to 390 mm/s 1 - 5000 Hz (-3 dB) and 0.1 - 79 mm/s
Accuracy	± 2%
Displacement	1 - 16 Hz (-3 dB) and 0.05 - 50 mm 1 - 80 Hz (-3 dB) and 0.05 – 2.1 mm 1 - 1000 Hz (-3dB) and 0.003 - 0.02 mm
Sampling frequency	32 kSPS
Frequency resolution	Fmax / FFT resolution
FFT Spectrum resolution	400, 800, 1600 lines
Weight functions (windows)	Hanning, rectangular
Trigger Mode	Free and internal
Environmental protection	IP65
Operating temperature range	-10°C to 50°C
Relative humidity	up to 80%
Battery life	8 hours of continuous use
Automatic shutdown	Adjustable delay, 2 to 99 minutes
Data storage	Micro SD card 4GB
PC communication interface	USB (Virtual Serial port for firmware upgrade)
Accelerometer	Charge type (pC)/ ICP (mV/g)
Carrying case	Plastic
Case dimensions	Approx. 300 x 250 x 110 mm
Weight, with case	2Kg

## Standard Kit Model 107VF

- Model 107VF with built-in rechargeable battery
- Accelerometer
- Accelerometer cable – 1.5 meters
- Magnet mount for accelerometer
- Charger AC 230V, 50Hz
- Cable for communication with PC
- Carrying case
- User manual
- ConSpect software
- Verification certificate

## Optional

Advanced route management software  
 Temperature measurement  
 Speed measurement  
 Audio output

VibAnalyst software  
 Infrared -80 to 350°C  
 20 to 20,000 rpm,  $\pm 1$  rpm  
 Headphone

## Optional items

- Model 107VF-T  
 Optical tachometer with magnetic stand
- Model 107VFT2  
 Optical tachometer probe with thermopile and magnetic stand
- Headphones
- VibAnalyst Software

