

Vibration Analyzer Data collector 107VF

107VF - is a compact yet powerful, vibration analyzer designed to measure the overall vibration parameters, facilitate FFT spectrum analysis of the rotating machinery for immediate condition evaluation. Route files and data files exchange via PC. Simple in use, reasonably priced, with free firmware upgrades, data management and reporting software. One-year warranty on hardware.

Key Features includes:

- Measurement of vibration velocity, displacement, acceleration and ISO 10816 modes.
- Possibility to obtain trends of vibration variation with the help of "ConSpect" software.
- Spectral analysis of vibration (FFT).
- Time waveform Analysis.
- Display Peak-peak, RMS and peak vibration values.
- Non-contact infrared tachometer for measuring the rotational speed.
- Built-in rechargeable battery.
- Optional- temperature measurement and advance route management software VibAnalyst.



Applications:

- Power generation Pulp & paper
- Petrochemical
- Oil & gas
- Pharmaceutical
- Processing industries
- Desalination plants
- Water Filtration Plants
- Shipping vessel
- Many more industries and institution.

Variants:

Standard functions:

- FFT Spectrum
- TWF

Optional functions:

- Temperature measurement
- Speed/RPM measurement
- Audio output by headphone

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) & 0.01 - 500 m / s ²
Velocity	1 - 16 Hz (-3 dB) & 0.8 - 5000 mm / s

Accuracy	1-80Hz (-3dB) & 0.2 to 390 mm/s ± 2%
Displacement	1 - 5000 Hz (-3 dB) & 0.1 - 79 mm / s 1 - 16 Hz (-3 dB) & 0.05 - 50 mm 1 - 80 Hz (-3 dB) & 0.05 – 2.1 mm 1 - 1000 Hz (-3dB) & 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
Housing	ABS
Environmental protection	IP65
Operating temperature range	-10°C to 50°C
Relative humidity	up to 80%
Battery, continuous operation time	4.8V, 8 hours
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, with liner
Case dimensions	Approx. 300 x 250 x 110 mm
Weight, with case (approx.)	1.9 Kg

OPTIONAL:

Advance route management software	VibAnalyst software
Temperature measurement	IR (upto -80 to 350 °C)
Speed measurement range	20 to 20,000 rpm ± 1 rpm
Audio output	Headphone

Standard delivery set:

1. 107VF with inbuilt rechargeable battery
2. Accelerometer
3. Accelerometer cable – 1.5 meters
4. Magnet mount for accelerometer
5. Charger AC 230V 50Hz
6. Cable for communication with PC
7. Carrying case
8. User's manual
9. ConSpect software
10. Verification certificate

Optional Items:

1. Headphone
2. VibAnalyst software
3. Optical tachometer probe with thermopile and magnetic stand (107VF-T2 only)
4. Optical Tachometer with magnetic stand (107VF-T only)

Representative:

Note: Please check the package contents when ordering the device.

*Specification subject to change without notice.

NPP KOHTECT
73-v, Lomonosova str, of.38
Kiev 03189
Tel: +38 044 2577338
www.koh-tect.com