

FFT ANALYZER BALANCER



iAdept Marketing

107VF-B / B1

- Time Waveform Analysis
- Spectral Analysis of Vibration (FFT)
- Route and Off Route Data Collection

Vibration, Velocity,
Displacement, Acceleration,
Balancing, Envelope,
ISO 10816 modes



**MOTOR
CURRENT
SIGNATURE
ANALYSIS**



Inputs	IEPE or charge type accelerometers with known sensitivity, switchable. Optical RPM transducer with IR pyrometer sensor	
Supply Voltage, V:	9	
AD conversion	24 bits	
Dynamic range	106 dB	
Frequency range	1...10000 Hz	
Tachometer measurements range	10...200,000 rpm	
Accuracy	±0.1% and ±1 rpm	
Vibration measurement range:		
Acceleration	200 m/s ²	
Velocity	200 mm/s	
Displacement	2000 μm	
Accuracy	±5%	
FFT spectrum resolution	400, 800, 1600 lines	
Data storage	4GB micro SD card, built-in	
PC interface	USB	
Display	color, sunlight readable 128x160 dots	
Battery	Li-Po rechargeable, up to 8 hrs continuous operation	
Operating Temperature	0°C to 50°C	
Storage Temperature	-20°C to 60°C	
Relative Humidity	up to 80%	
Dimensions	132 x 70 x 33 mm	
Weight	150 g	





107VF-B / B1
Applications



Shipping vessel



Power generation



Desalination plants



Processing industries



Pulp & Paper



Petrochemical



Oil & gas



Water Filtration Plants

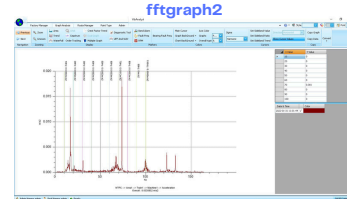
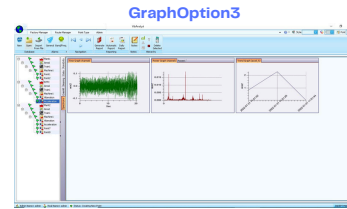
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Overview

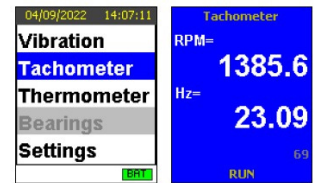
The **107VF-B / B1 / FFT Analyzer / Balancer** (Device, Analyzer) is a compact yet powerful, vibration analyzer designed to measure overall vibration parameters, FFT spectrum analysis of the rotating machinery, immediate evaluation against **ISO 10816 standard**, balancing of rotating machinery, condition monitoring by route-based measurements and data collection. Route files and data files exchange via email makes it ideal for data collection at remote sites. **Simple in use, with remote firmware upgrades**, comes with data management and reporting software.

Features

- Possibility to obtain trends of vibration variation with the help of "ConSpect" software.
- Time waveform Analysis.
- Display Peak-peak, RMS, and peak vibration values.
- Non-contact infrared tachometer for measuring the rotational speed.
- Built-in rechargeable battery.
- Envelope spectrum for bearing fault detection
- Spectrum Analysis to verify the source of high shock pulse
- Single or 4-plane balancing
- Optional- temperature measurement and advanced route management software VibAnalyst™



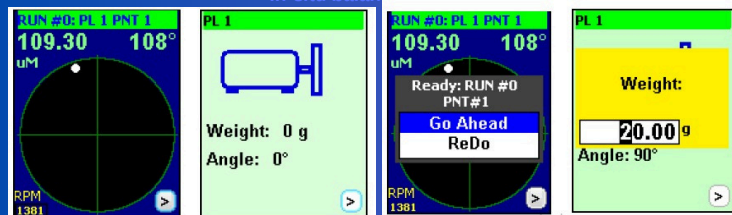
Tachometer (-T versions)



P77 bearings probe (optional)



in-situ balancing



Portable Balancer 107VF-B / B1, is a highly efficient tool designed for **precise balancing of rotating machinery**. It offers accurate measurement and calculation of correction masses, ensuring optimal machine performance. The 107VF-B model supports **single-plane, two-point balancing while the 107VF-B1 version extends capability to four planes and eight points, providing enhanced flexibility for more complex applications**. Balancing reports can be easily generated and saved directly from the results screen, ensuring thorough documentation. Additionally, the device supports trim balancing to effectively correct residual imbalances, ensuring maximum operational efficiency. Ideal for professionals seeking a reliable and portable balancing solution.

VARIANTS

Standard functions:

- FFT Spectrum TWF Route and off Route data collection
- 1 plane or 4 plane Balancing
- Speed / RPM measurement

Standard Software: Conspect

Optional functions:

- Temperature,
- Motor Current Signature display using Current Clamp
- Shock pulse bearing condition measurements

Optional software – VibAnalyst™ / Vinanalyser vibration route management and analysis software

STANDARD DELIVERY SET

The 107VF-B / B1 kit includes:

1. 107VF display unit
2. AC102- 1A accelerometer,
3. Cable 1.8m
4. Magnetic mount for sensors
5. USB wall charger
6. USB cable for PC connectivity
7. PC software "ConSpect" software and User's Manual in help menu
8. Carry Case
9. Calibration Certificate
10. Optical probe, magnetic stand



optical tachometer