

Vibration Analyzer Data Collector 107VF

A powerful yet compact vibration analyzer designed to measure overall vibration, FFT spectrum analysis against ISO 10816 standards, balancing of rotating equipment, condition monitoring by route-based measurements and data collection. Route and data files can be exchanged via email making it ideal for data collection at remote sites. Simple to use with free firmware upgrades, supplied with data management and reporting software.

Measurement functions

Vibration mode – analyzer measures overall vibration in acceleration, velocity and displacement with FFT spectrum. Route or off-route measurements can be captured.

Tachometer – analyzer measures speed of rotation by means of contactless optical sensor. The measurement result is displayed in RPM and Hz.

IR thermometer – contactless measurement of object temperature. The measurement result is displayed in °C and °F.

Balancing – measurements and calculation of correction masses for rotating machine balancing purposes.

Optional features

- **Model 107VF-T**
With optical tachometer
- **Model 107VF-T2**
With optical tachometer and infrared thermometer
- **Model 107VF-B (New)**
Single plane balancing function
- **Model 107VF-B1 (New)**
Extended balancing function – Up to four balancing planes and eight vibration points





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Specifications:

Inputs	IEPE or charge type accelerometer with known sensitivity, switchable Tachometer and IR thermometer (Optional)
AD conversion	24 bits
Dynamic range	106dB
Frequency range	1 Hz to 10 kHz
Vibration measurement range	Acceleration : 200m/s ² Velocity : 200mm/s Displacement : 2000µm
Accuracy	+/-5%
Balancing	Single plane up to four planes and eight vibration points
Temperature measurement	
Range	-70 to 380°C
Temperature accuracy	+/-0.5% (0-60°C), +/-1% (-40-120°C), +/-2% (-70-180°C), +/-4% (-70-380°C)
Tachometer measurement	
Range	10-200 000rpm
Tachometer accuracy	+/-0.1% and +/-1rpm
FFT spectrum resolution	400, 800, 1600 lines
Data storage	4GB micro SD card
PC interface	USB
Display	Colour 128 x 60
Battery	Li-Po rechargeable, up to 8 hours continuous use
Operating temperature	0-50°C
Storage temperature	-20 to 60°C
Dimensions	132 x 70 x 33mm
Weight	150g

Standard Kit includes :

- **Model 107VF with built-in rechargeable battery**
- **Accelerometer with 1.5m cable and magnet for curved surface mount**
- **USB wall charger**
- **USB cable**
- **ConSpect software and manual**
- **Carry case**