

107VF Vibration Analyzer & Balancer



Portable. Accurate. Proven in the Field.

The **107VF** is a compact professional vibration analyzer and rotor balancer designed for maintenance engineers and field technicians. It combines high-accuracy measurements with an intuitive interface and robust analytical tools, delivering fast and reliable diagnostics in demanding industrial environments.



Key Advantages

- **High-accuracy vibration measurements** with wide dynamic range
- **Comprehensive vibration analysis**
- **Up to 4 plane rotor balancing** with step-by-step guidance
- **Bright color display** and a clean, intuitive menu structure
- **Rugged industrial design** suitable for harsh field conditions

Main Functions

- **FFT spectrum analysis** with selectable frequency ranges
- **Time waveform measurement** and long-duration recording
- **Bearing condition monitoring**
- **Optical tachometer** and IR thermometer measurement
- **Balancing in up** to four planes
- **Built in PDF** reports generation

Inputs	X1 ch AC, ICP, Charge type x1 tacho, IR thermometer, Bearings Tester Probe
Frequency range	1...10000 Hz
Dynamic range	106 dB
AD conversion	24 bits
Sampling frequency	128 ksps
FFT resolution	400, 800, 1600 lines
Measurement range:	
Vibration	From 25 g to 500 g, depending on the transducer used, and customizable to meet user requirements
Bearings tester	-30..+90 dBsv \pm 3dBsv
Tachometer	10...200000 RPM \pm 0.1‰ or \pm 1 min ⁻¹
IR thermometer	-70°C to 380°C \pm 0.5% (0...+60°C), \pm 1% (-40...+120°C), \pm 2% (-70...+180°C), \pm 4% (-70...+380°C)
Measurement functions	Real time FFT Analyzer Route based Data Collector Balancer (up to 4 planes, 8 points) Bearings Tester (Shock Pulse level, Kurtosis) Optical Tachometer IR thermometer
External interfaces	USB device for PC connection and battery charging 4-pin M9 connectors for Tachometer, IR thermometer, Bearings Tester Probe, Stroboscope output
Storage	8 GB uSD card
Data files	Binary, CSV, built-in PDF reports
PC software	Free ConSpect software for data management
Battery	Rechargeable Li-Ion, 1 Ah, 12 hours continuous operation
Display	Color TFT, 1.8-inch, 128 x 160 px, sunlight readable
Case	High-impact ABS with TPE impact protection
Ingress protection rating	IP65 (Dust tight and protected against water jets)
Keypad	9 keys, membrane
CE conformity	Directives: 2014/35/EU, 2014/30/EU
Weight	Approx. 150 g (0.3 lb)
Dimensions	125 x 60 x 30 mm (5.0 x 2.25 x 1.2 in) (LxWxH)
Temperature range	-10 to 50 °C (14 to 122 °F) Operation -20 to 70 °C (-4 to 158 °F) Storage

Kit content

- Display unit
- Accelerometer, magnet, cable 1.5m
- Optical tachometer probe P77T
- Magnetic stand
- Bearings Tester Probe P77B
- USB wall charger
- USB-micro cable
- Carry case

*107VF-B2 kit



107VF variants

Variant	107VF	107VF-BE	107VF-T	107VF-T2	107VF-B	107VF-B1	107VF-B2
Features							
FFT Analyzer, Vibration meter	✓		✓	✓	✓	✓	✓
Optical Tachometer		✓	✓	✓	✓	✓	✓
IR Thermometer				✓			✓
Single plane Balancing					✓		
Up to 4 planes Balancing						✓	✓
Bearings Tester		✓					✓

*Contact sales for full version details and additional system variants

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