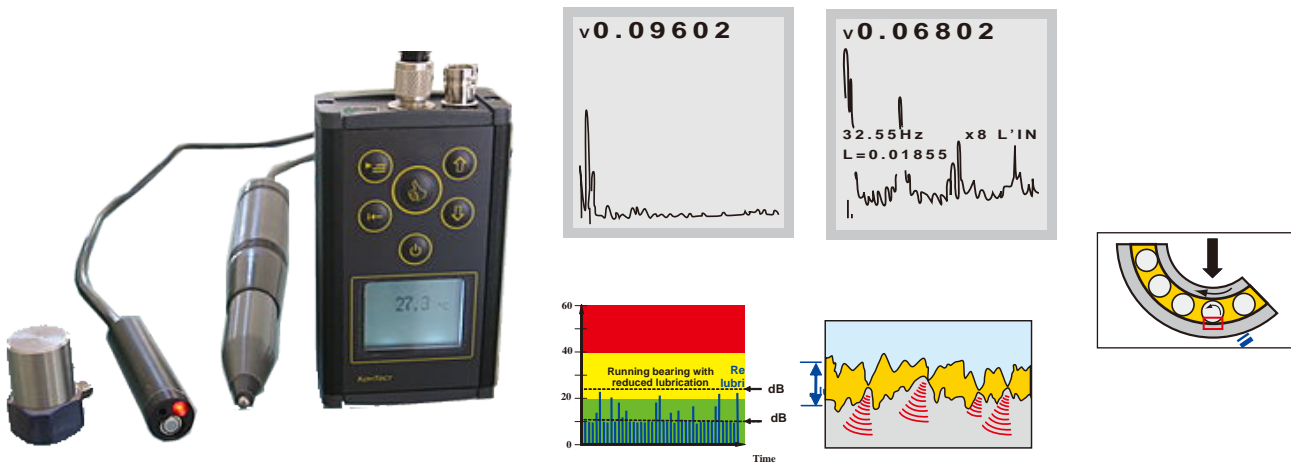


Compact FFT Vibrometer - 107Bi (c/w Bearing Test, Tacho & IR Temp)

- Universal vibration meter that measurement of Velocity, Acceleration, Displacement, FFT spectrum (up to 800 lines), Bearing diagnostic, Speed and Temperature.
- Display of true RMS, peak acceleration, and Peak-to-Peak displacement values.
- Frequency range 2Hz to 10kHz, HPF (high pass filter) 2 or 10Hz, LPF (low pass filter) – between 100Hz to 10kHz (step - 100Hz, 1kHz).
- Rechargeable battery save the trouble of battery replacement and money.
- Automatic shut-off conserves battery power.
- Save more than hundreds measured data files, print report via USB cable for data management on Window base software.



107Bi the compact and economical data collector for conditon monitoring that provide bearing test, rpm speed measure, machine vibration A, V, S include 800lines FFT and even temperature measurement. It is a simple and useful tool for the daily work of maintenance personnel, particularly for early detection of machine faults. It helps to monitor most of the essential running condition of rotating machinery by means of vibration severity to ISO-10816.

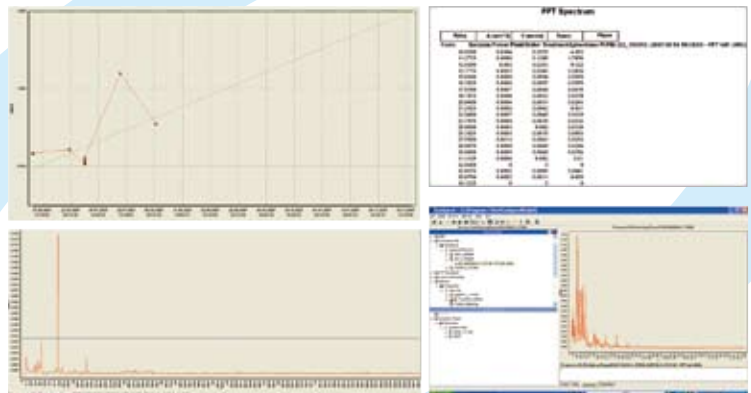
Charge amplifier with programmable sensitivity (use any piezoelectric accelerometer with known sensitivity). IP 65 rugged housing with silicon protector to withstand for harsh environments.

Sample report from conspect software

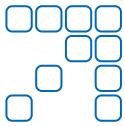
Guide for Velocity Threshold Readings for vibration

mm/s rms		inch/s rms		Velocity
11		0.44		
7.1		0.28		
4.5		0.18		
3.5		0.11		
2.8		0.07		
2.3		0.04		
1.4		0.03		
0.71		0.02		
mm/s rms		inch/s rms		
rigid	flexible	rigid	flexible	<<<Foundation
Pumps > 15KW radial, axial, mixed flow		Medium sized machines 15 kW < P ≤ 300 KW		<<<Machine Type
Integrated driver		Large machines 300 kW < P ≤ 50 MW		
External driver		Motors 160 mm ≤ H < 315 mm		
Group 4		Motors 315 mm ≤ H		
Group 3		Group 2		
Group 1		<<<Group		

A Excellent, newly commissioned
B Acceptable, unrestricted long-term operation
C Improvement Required, restricted long-term operation
D Unacceptable, vibration causes damage



The ConSpect software allow user to create A, V, S data report, FFT Spectrum, bearing condition & broadband trend result report



Compact FFT Vibrometer - 107Bi (c/w Bearing Test, Tacho & IR Temp)

TECHNICAL SPECIFICATIONS

Instrument

Measurement Frequency & Range

	Frequency range, Hz	Measurement Range, RMS
Acceleration	2 - 10000	0.01 - 200 m/s ²
Velocity	2 - 16	0.8 - 1000 mm/s
	10 - 1000	0.1 - 79 mm/s
Displacement	2 - 16	0.05 - 50 mm
	10 - 100	0.003 - 1.2 mm
	10 - 1000	0.003 - 0.02 mm

Vibration accuracy	±5%
FFT Spectrum resolution	Up to 800 line
Window function	Hanning function
Sensitivity conversation ratio of acceptable accelerometers	pCs ² /m - 0.1 to 500 (given)
Bearing measurement unit	Carpet Value (dBc) and Max Value (dBm)
Housing materials	IP65 chassis w.silicon protector against drop shock

Environment condition:

Pulses per minute	10 - 50
Max. acceleration to shock	50m/s ²
Pulse duration & total shock no.	10 - 12.5msec; 1000
Operating temperature	-10°C to 55°C
Relative humidity	up to 80%
Battery life	Approx. 10hrs continuous operating w/o backlife
Automatic shutoff	Approx. 150 seconds
Memory capacity	2MB
Output interface	High speed USB port
Unit dimensions	Approx. 60 x 110 x 30mm

Accelerometer, IR Tacho, Temp & Shock Pulse Probe

Type	Piezoelectric accelerometer
Sensitivity conversation ratio	pCs ² /m 5.0 ~7.0
Frequency range, Hz	2 - 10000 Hz
SP Resonance frequency	32kHz
Transverse sensitivity	< 5%
Tacho range & resolution	50 - 30,000rpm; 1rpm
SP Probe resolution	1dBi
Range & accuracy	99dBm; ±5dB
Temp range & resolution	-70°~380°C; 0.5°C

Carrying Case

Standard	ABS with form inserted
Case dimension	Approx. 276 x 227 x 100mm
Weight incl. all std parts	approx. 4.5kg

Standard Delivery:

- 107Bi display unit w/built-in rechargeable battery
- Accelerometer
- Accelerometer cable
- Accelerometer pin probe
- Accelerometer magnetic stud
- Tacho w/ integrated IR Temperature sensor
- Shock Pulse probe w/ cable
- Carry case w/ form inserted
- Conspect PC software & operating manual in CD-ROM
- Maker Calibration & Quality certificate
- USB com cable
- AC charger 110-230Volts, 50~60Hz
- Magnetic stand and holder for Tacho



01/12 Specifications subject to change without notice.

Representative: