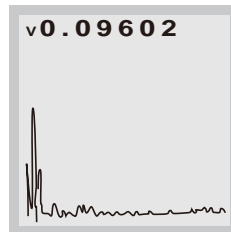
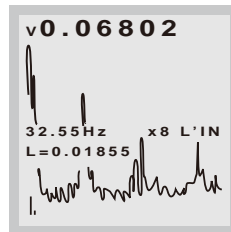


## Compact FFT Vibration Data Collector - 107B ( with Spectrum )

- Universal vibration meter that measurement of Velocity, Acceleration, Displacement. FFT spectrum up to 800 lines resolution.
- Display of true RMS, peak acceleration, and Peak-to-Peak displacement values.
- Frequency range 2Hz to 5kHz, HPF (high pass filter) 2 or 10Hz, LPF (low pass filter) – between 100Hz to 5kHz (step - 100Hz, 1kHz).
- Rechargeable battery save the trouble of battery replacement and money.
- Automatic shut-off conserves battery power.
- Save 2Mb measured data and print record via USB cable for data management with Window base PC software.



107B the compact and economical data collector with spectrum analyzer (FFT-800 lines, logarithmic/linear view) and measures machine vibration A, V, S. 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 the running condition of rotating machinery by means of vibration severity to ISO-10816.

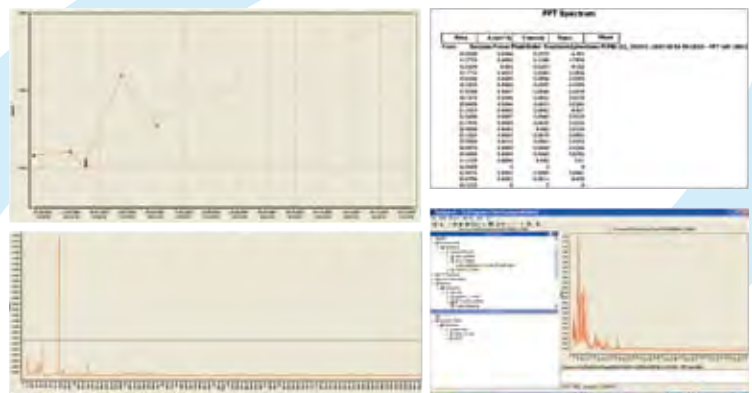
Charge amplifier with programmable sensitivity (use any piezoelectric accelerometer with known sensitivity). IP 65 rugged housing with silicon protector to withstand for harsh environments.

### Sample report from conspect software

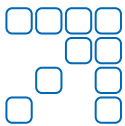
Guide for Velocity Threshold Readings for vibration

		mm/s rms		inch/s rms		Velocity	
		11		0.44		10, 1000Hz f < 6000 rpm 2, 10000Hz f < 1200 rpm	
		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	rigid	flexible		<<<Foundation
Pumps > 15KW radial, axial, mixed flow		Medium sized machines 15 kW < P < 300 KW		Large machines 300 kW < P < 50 MW		<<<Machine Type	
Integrated driver		External driver		Motors 160 mm ≤ H < 315 mm		Motors 315 mm ≤ H	
Group 4		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 and also trending result report



## Compact FFT Vibration Data Collector - 107B ( with Spectrum )

### TECHNICAL SPECIFICATIONS

#### Instrument

##### Measurement Frequency & Range

	Frequency range, Hz	Measurement Range, RMS
Acceleration	2 - 10000	0.01 - 200 m/s <sup>2</sup>
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

Accuracy	±5%
FFT Spectrum resolution	Up to 800 line
Window function	Hanning function
Sensitivity conversation ratio of acceptable accelerometers	pCs <sup>2</sup> /m - 0.1 to 500 (given)
Housing materials	IP65 chassis w.silicon protector against drop shock
Weight	200g

#### Environment condition:

Pulses per minute	10 - 50
Max. acceleration to shock	50m/s <sup>2</sup>
Pulse duration	10 - 12.5msec
Total shock number	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

Type	Piezoelectric accelerometer
Sensitivity conversation ratio	pCs <sup>2</sup> /m 5.0 ~7.0
Frequency range, Hz	2 - 10000 Hz
Resonance frequency	> 28kHz
Transverse sensitivity	< 5%
Cable length	1.5m
Dimension, mm	Ø25 x 34
Weight	50g, 8oz

#### Carrying Case

Standard	PP with form inserted
Case dimension	Approx. 290 x 235 x 80mm
Weight incl. all std parts	1.3Kgs

#### Standard Delivery:

1. 107B display unit w/built-in rechargeable battery
2. Accelerometer
3. Accelerometer cable
4. Accelerometer pin probe
5. Accelerometer magnetic stud
6. AC charger, 230Volts-50Hz
7. USB cable, 1.5m
8. Carry case w/ form inserted
9. Conspet PC software & operating manual in CD-ROM
10. Maker Calibration Certificate



11/15 Specifications or package subject to change without notice.

**Representative:**