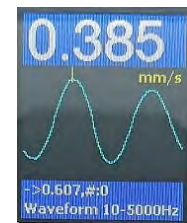
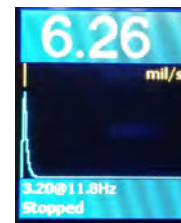
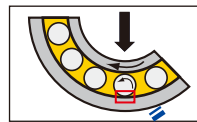


New Compact FFT Data Collector - Color 107VF Broadband and FFT Spectrum / 107VF-Tx for 1600 Lines Spectrum, Broadband, Bearing Enveloping, Tacho & IR Temp and Software)

- Universal vibration meter that measurement of Velocity, Acceleration, Displacement, FFT & Time Domain spectrum (up to 800 -1600 lines), Bearing envelop diagnostic, Speed, Temperature and 3.5mm headset jack. Result view with built-in
- vibration severity guide ISO 10816. Display of true RMS, peak acceleration, and Peak-to-Peak displacement values.
- Standard Frequency range 2Hz to 10kHz/ 35kHz customise model; HPF (high pass filter) 2 or 10Hz, LPF (low pass filter) – between 100Hz to 10kHz/ 35kHz customise option (step - 100Hz, 1kHz).
- New industrial Li-ion rechargeable battery save the trouble of battery care and ease of device maintenance.
- Large color and numeric read-out and Automatic shut-off conserves battery power.
- 4GB memory allow thousands measured data files to save, print report via USB cable for data management on Window base software.

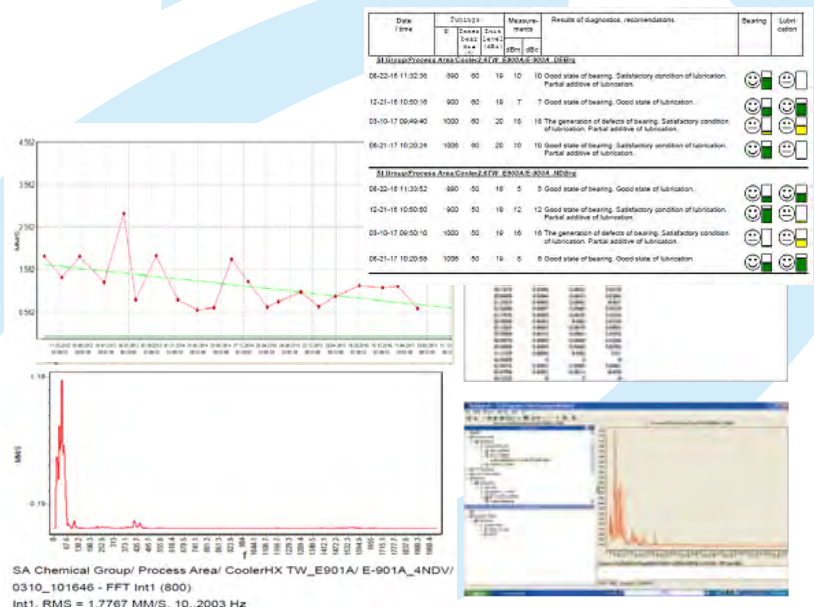
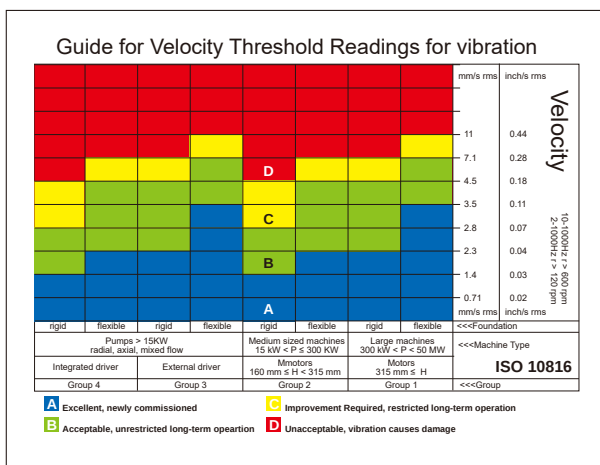


107VF is a compact colour and economical data collector for condition monitoring that provide bearing enveloping, rpm speed measure, machine vibration A, V, S include 1600lines FFT spectrum, Time -domain and temperature measurement. It is a simple and useful frontline tool for the daily work to maintenance personnel, particularly for early predictive monitoring detection of machine faults.

It helps to monitor most of the essential health condition of rotating machinery by means of vibration severity to ISO-10816 and bearing condition diagnostic.

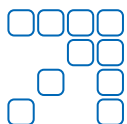
ICP sensor / Charged amplifier with programmable sensitivity (use of any piezoelectric accelerometer with known sensitivity). IP 67 rugged housing with silicon protector to withstand for harsh environments.

Sample Trend, FFT & Bearing condition report from Conspect Database software



The Conspect software allows user to create report on A, V, S vibration data, FFT Spectrum, bearing cum lubrication condition & broadband trend for predictive condition monitoring.

All images are for illustration purposes only, specifications and package detail are subject purchase module and changes without notice.



TECHNICAL SPECIFICATIONS

Instrument

Measurement	Frequency & Range
Frequency range	Hz Measurement Range, RMS
Acceleration	2 - 10000/ 35000 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 1600 lines for Hanning / Rect function
Window function	
Sensitivity conversation ratio	mV/g or pCs ² /m - 0.1 to 500 (given) of acceptable accelerometers
Bearing measurement unit	Acceleration enveloping
Housing materials	IP65 Alu. chassis against drop shock/ impact

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 120°C (sensor only)
Relative humidity	up to 80%
Battery life	Approx. 10hrs continuous operating w/o backlife
Automatic shutoff	User define
Memory capacity	min. 4GB
Output interface	mini USB
Unit dimensions	Approx. 60 x 110 x 30mm

Accelerometer, IR Tacho and Temperature Probe

Accelerometer Type	Piezoelectric accelerometer
Sensitivity conversation ratio	pC s ² /m 5.0 ~7.0
Frequency range, Hz	2 - 5KHz/ 0.15Hz - 28kHz/35kHz (3dB) T2 (ICP) only
SP Resonance frequency	32kHz
Transverse sensitivity	<5%
Tacho range & resolution	50 - 30,000rpm; 1rpm
Range & accuracy	<3%
IR Temp range & resolution	-70°~380°C; 0.5°C

Carrying Case

Type	ABS air-tight with form inserted
Dimension	Approx. 276 x 227 x 100mm
Weight incl. case all std parts	Approx. 2.5Kg

Standard Delivery subject to ordered model:

1. 107-VF color display unit w/built-in Li-Po battery
2. Industrial Accelerometer
3. Accelerometer cable
4. Magnetic stud
5. Conspect PC software & operating manual in 16GB USB stick
6. USB charger & com cable
7. Factory ISO Calibration Certificate
8. Water proof carry case w/ form inserted
9. Tacho w/ integrated IR Temperature sensor (T2 model only)
10. Magnetic stand and holder for Tacho (T2 model only)



Motor on cooling Fin-Fan



Extruder Gearbox Bearing



M3 MMF Shear Design
Optional Accelerometer 35kHz



model 107VF-T2 incl.
RPM & Temp Mode

