

SVAN 954 Vibration Level Meter & Analyser

The SVAN 954 is a digital, Type 1 vibration level meter along with the analyser. Instrument is intended to general vibration measurements and machinery condition monitoring. It can be used by consultants, maintenance services, industry R&D departments etc. Instrument allows the parallel acceleration, velocity and displacement measurements. Three vibration profiles allow parallel measurements with independently defined filters and RMS detector time constants. Each profile provides a significant number of results (like RMS, Peak, Peak-Peak or Max). The advanced time-history logging for each profile provides the complete information about the measured signal stored in non-volatile 16 MB internal memory. Measurements data can be easily downloaded to any PC using the USB interface and SvanPC+ software.

Most of required weighting filters, like VelMF, meeting ISO 10816 standard requirements, are available with this instrument.

Using the computational power of its digital signal processor, the SVAN 954 instrument can perform additionally the real-time 1/1 octave or FFT analysis. The SVAN 954 offers also, parallel to the vibration measurement, the RPM measurement with Monarch laser tachometer.

Instrument is powered from four AA standard or rechargeable batteries. The powering of the instrument from the USB interface is also provided. The robust and very compact case together with a light-weight design accomplish the exceptional features of this modern instrument.

FEATURES

- Low cost vibration analyser
- IEPE and charge type accelerometers supported
- Three parallel independent profiles - parallel acceleration, velocity and displacement measurements
- Built-in machine filter (10 Hz ÷ 1 kHz) meeting ISO 10816 requirements
- FFT analysis - up to 1600 lines
- 1/1 octave real-time analysis
- RPM measurement
- Advanced data logger of RMS / Max / P-P / Peak results including spectral analysis
- Programmable measurement "route"
- Advanced trigger function
- Power supply by four AA rechargeable or standard batteries
- Battery operational time up to 16 h (in the meter mode)
- Compact, light weight and robust case (only ca 390 grams including batteries)
- USB 1.1 Client
- Easy in use



TECHNICAL SPECIFICATIONS

VIBRATION LEVEL METER

Standards	Type 1: ISO 10816
Results	RMS, Peak, Peak-Peak, Max
Weighting Filters	Simultaneous measurement in three profiles with independent set of filters and detector time constants HP1, HP3, HP10, Vel1, Vel3, Vel10, VelMF, Dil1, Dil3, Dil10
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB Time constant from 100 ms to 10 s
Accelerometer	Dytran 3185D accelerometer (sensitivity 100 mV/g)
Measurement Range	Accelerometer dependent (with Dytran 3185D accelerometer: 0.003 ms ⁻² RMS ÷ 500 ms ⁻² Peak)
Frequency Range	Accelerometer dependent (with Dytran 3185D accelerometer: 2 Hz ÷ 8 kHz)

ANALYSER (option)

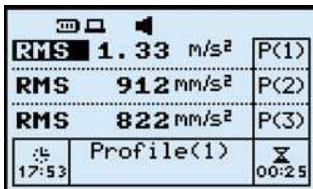
Data Logger*	Time-history logging including spectra
1/1 octave*	Real-time analysis, 15 filters with centre frequencies from 1 Hz to 16 kHz meeting Type 1: IEC 61260
FFT*	Up to 1600 lines with Hanning, Kaiser-Bessel, Flat Top, Rectangular windows
RPM measurements*	1 ÷ 99999 rotation speed measurement parallel to the vibration measurement
Programmable "route"	Programmable measurement sequence downloadable from PC software

BASIC DATA

Input	IEPE or charge amplifier with TNC connector
Dynamic Range	More than 100 dB in single range
Internal Noise Level	Less than 10 µV RMS (IEPE input & HP1 filter)
Frequency Range (-3 dB)	0.7 Hz ÷ 22.6 kHz, sampling rate 48 kHz
Display	LCD 128 x 64 pixels plus icons with backlighting
Memory	Internal 16 MB, non-volatile
Interfaces	USB 1.1 Client, Extended I/O - AC output (1 V Peak) or Digital Input/Output (Trigger - Pulse)
Power Supply	Four AA batteries (alkaline) operation time > 12 h (6.0 V / 1.6 Ah) ** Four AA rechargeable batteries (not included) operation time > 16 h (4.8 V / 2.6 Ah) ** USB interface 500 mA HUB
Environmental Conditions	Temperature from -10 °C to 50 °C Humidity up to 90 % RH, non-condensed
Dimensions	140 x 83 x 33 mm (without accelerometer)
Weight	Approx. 390 grams including batteries (without accelerometer)

* each function parallel to the meter mode

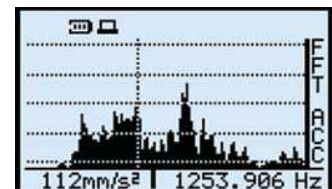
** with backlight off



VLM results in 3-profiles view



1/1 octave analysis



FFT analysis

Continuous product development and innovation are the policy of our company. Therefore, we reserve the right to change the specifications without prior notice.



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