## SVAN 954 Vibration Analyser

The SVAN 954 is digital, Type 1 vibration level meter along with analyser. Instrument is intended to general vibration measurements and machinery condition monitoring. It can be used by consultants, maintenance services and industry R&D departments etc.

Instrument allows parallel acceleration, velocity and displacement measurements. Three vibration profiles allow parallel measurements with independently defined filters and RMS detector time constants. Each profile provides significant number of results (like RMS, Peak, Peak-Peak, or MAX). Advanced time history logging for each profile provides complete information about measured signal in non-volatile 16 MB internal memory and can be easy downloaded to any PC using USB interface and SvanPC+ software.

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

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

Instrument is powered from four AA standard or rechargeable batteries. The powering of the instrument from USB interface is also provided.

Robust, very compact case and light weight design accomplish the exceptional features of this new generation instrument.

## **FEATURES**

- Low cost vibration analyser
- Parallel acceleration, velocity and displacement measurements
- Three parallel independent profiles
- Built-in machine filter (10 Hz ÷ 1 kHz) meeting ISO 10816 requirements
- FFT real time analysis up to 1600 lines with Hanning window
- 1/1 octave real time analysis
- RPM measurements
- Advanced Data Logger of RMS / Max / P-P / Peak results including spectral analysis
- Programmable measuring "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 460 grams including batteries)
- USB 1.1 Client
- Easy in use





INSTRUMENTATION FOR SOUND & VIBRATION MEASUREMENTS

## TECHNICAL SPECIFICATIONS

VIBRATION LEVEL METER & ANALYSER

Standards ISO 10816, Type 1; ISO 8041:2005; IEC 61260, Type 1

Results RMS, Peak, Peak-Peak, Min or MAX

Simultaneous measurement in three profiles with independent set of filters and detector time constants

HP1, HP3, HP10, Vel1, Vel3, Vel10, VelMF, Dil1, Dil3, Dil10, W, KB Weighting Filters

**RMS** Detector Digital True RMS detector with Peak detection, resolution 0.1 dB

Time Constants: 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<sup>-2</sup> RMS ÷ 500 ms<sup>-2</sup> Peak Frequency range 0.5 Hz ÷ 20 kHz; accelerometer dependent (with Dytran 3185D accelerometer: 2 Hz ÷ 8 kHz)

Data Logger\* Time History logging including spectra (option)

1/1 octave \* Real time analysis, 15 filters with centre frequencies from 1 Hz to 16 kHz meeting Type 1,

IEC 61260 (option)

FFT\* Real Time 1600 lines with Hanning window (option)

RPM measurements <sup>3</sup> 1 ÷ 99999 Rotation speed measurement parallel to the vibration measurement (option)

BASIC DATA

Input IEPE interface with TNC connector

Dynamic Range 100 dB

Internal Noise Level less than 5 µV RMS

Frequency Range 0.5 Hz ÷ 20 kHz, sampling rate 51.2 kHz

Display LCD 128 x 64 pixels plus icons with backlighting

Memory 16 MB non-volatile flash type

Interfaces USB 1.1 Client, External I/O - AC output (1 V Peak) or Digital Input/Output (Trigger - Pulse)

Power Supply Four AA batteries (alkaline)

Four AA rechargeable batteries (not included)

**IISR** interface

operation time  $> 12 \text{ h} (6.0 \text{ V} / 1.6 \text{ Ah})^*$ 

operation time > 16 h (4.8 V / 2.6 Ah)

500 mA HUB

**Environmental Conditions** from -10 °C to 50 °C Temperature

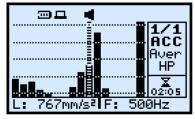
Humidity

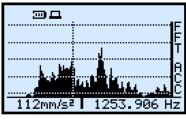
up to 90 % RH, non-condensed

**Dimensions** 140 x 83 x 33 mm (without accelerometer) Weight Approx. 450 grams including batteries

with backlight off

<b>∞</b>		
RMS	<b>1.33</b> m/s²	P(1)
RMS	<b>912</b> mm/s²	P(2)
RMS	<b>822</b> mm/s²	P(3)
(년 17:53	Profile(1)	区 00:25





Three 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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each function parallel to the meter mode