

SVAN 953

Sound Level Meter & Analyser

The SVAN 953 is all digital, Type 2 sound level meter along with analyser. Instrument is intended to general acoustic measurements, environmental noise monitoring, occupational health and safety monitoring.

Three acoustic profiles allow parallel measurements with independently defined filters and RMS detector time constants. Each profile provides significant number of results (like L_{eq} , L_{Max} , L_{Min} , L_{Peak} , Spl , SEL etc.). Advanced time history logging for each profile provides complete information about measured signal in non-volatile 16 MB internal memory or external USB Memory Stick and can be easily downloaded to any PC using USB interface and SvanPC+ software.

Using computational power of its digital signal processor the SVAN 953 instrument can, simultaneously to the meter mode, perform real time 1/1 octave analysis including statistical calculations and FFT analysis.

Acoustic dosimeter function is available with the SV 25_2 dedicated microphone. Fast USB 1.1 interface (12 MHz) creates real time link for the PC "front-end" application of the SVAN 953 instrument. The measurement results can be also downloaded to any PC using the RS 232 or IrDA interfaces.

Instrument is powered from four AA standard or rechargeable batteries (separate charger is required). The powering of the instrument from the External DC power source or USB interface is also provided.

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

FEATURES

- Type 2 sound level measurements meeting IEC 61672:2002
- Single measurement range in the Meter Mode
- Three parallel independent profiles
- Advanced Data Logger, up to 12 results logged simultaneously
- Time History recording on USB Memory Stick providing almost unlimited logging capacity
- 1/1 octave real time analysis
- FFT real time analysis
- Acoustic dose meter
- Advanced trigger and alarm functions
- USB 1.1 interface
(real time PC "front end" application)
- USB 1.1 Host, RS 232 and IrDA interfaces
- Integration time programmable up to 24 h
- Power supply by four AA rechargeable or standard battery
- Easy in use



TECHNICAL SPECIFICATIONS

SOUND LEVEL METER & ANALYSER

Standards	Type 2: IEC 61672-1:2002
Meter mode	SPL, L_{eq} , SEL, L_{den} , L_{tm3} , L_{tm5} , Statistics - L_n (L_1 - L_{99}), L_{Max} , L_{Min} , L_{Peak} Simultaneous measurement in three profiles with independent set of filters and detector time constants
Analyser	1/1 octave* real time analysis, Type 1: IEC 61260 (option) FFT* real time analysis up to 1920 lines (option)
Weighting Filters	A, C and Z
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB Time Constants: Slow, Fast, Impulse
Microphone	7052, nominal sensitivity 20 mV/Pa, prepolarised 1/2" condenser microphone with SV 12 IEPE preamplifier
Measurement Range	Total Dynamic Range: 18 dBA RMS ÷ 141 dBA Peak Linearity Range: 26 dBA RMS ÷ 141 dBA Peak
Data Logger*	Time History logging of RMS / Max / Min / Peak results to internal memory or USB Memory Stick (USB Host option) with logging step down to 2 ms Up to 12 measurement results logged simultaneously (option)
Acoustic dose meter*	Acoustic dose meter* meeting IEC 61252 with SV 25_2 microphone (option)

BASIC DATA

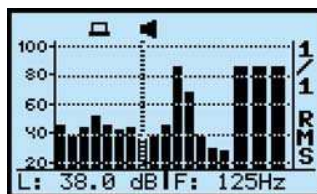
Input	IEPE with TNC connector (SV 12 IEPE preamplifier)	
Display	LCD 128 x 64 pixels plus icons with backlighting	
Memory	16 MB non-volatile flash type, USB Memory Stick (option)	
Interfaces	USB 1.1 Client, USB 1.1 Host (option), RS 232 (option: SV 55 required), IrDA (available with USB Host option) 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)**
	SA 17A external battery pack (option)	operation time > 24 h***
	External power supply	6 V DC ÷ 15 V DC (1.5 W)
	USB interface	500 mA HUB
Environmental Conditions	Temperature	from -10 °C to 50 °C
	Humidity	up to 90 % RH, non-condensed
Dimensions	300 x 82 x 42 mm (with microphone and preamplifier)	
Weight	0.6 kg with batteries, microphone and preamplifier	

*each function parallel to the meter mode

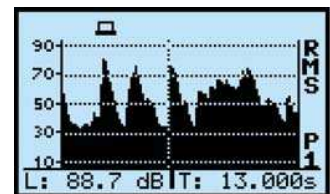
**with USB 1.1 Host function not active and backlight off



Main result in one profile view



1/1 octave analysis



Time history plot

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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