

SVAN 971

Sound Level Meter & Analyser

The SVAN 971 is an extremely small Class 1 Sound Level Meter with options for 1/1 & 1/3 octave analysis. The instrument brings unprecedented state of the art technology to a SLM of this size.

The instrument's user interface makes both configuration and measurement easier than ever before. For those who don't have time to work with measurement settings, SVAN 971 offers extremely simple operational mode with Start/Stop only. This innovation makes the SVAN 971 an ideal choice for many applications including industrial hygiene noise, short term environmental noise and general noise measurements performed by acoustic consultants or technical engineers.

Another exceptional feature is built-in self-vibration monitoring providing information about level of vibration that influences the measurement results.

The SVAN 971 provides broad-band results with all required weighting filters plus 1/1 octave & 1/3 octave band filters. It also

offers an incredible time-history logging capability providing broad-band results and spectra with adjustable logging steps. Triggered audio recording is also available whilst logging complete functionality. Data is stored on a microSD card and can be easily downloaded to a PC using the provided SvanPC++ software over either USB or RS 232 interfaces.

The instrument can be easily calibrated in the field using an acoustic calibrator. Insertion of the microphone into a calibrator automatically activates the calibration process and the calibration history is automatically logged.

New PC software the Supervisor will help SVAN 971 owners to organize data from number of measurements and create measurement reports in a quicker and more efficient way than ever before.

Features

- Low-cost Class 1 sound level meter meeting IEC 61672:2002
- Intended for general acoustic measurements, occupational health and environmental noise measurements
- Easy in use predefined setups
- Extremely simple Start/Stop mode
- Three parallel independent profiles
- 1/1 or 1/3 octave real-time analysis
- Advanced time-history logging
- MicroSD memory card providing almost unlimited logging capacity
- Acoustic dose measurements
- Voice comments recording
- Audio events recording
- Self-vibration monitoring
- Revolutionary pocket size & light weight ca 225 grams
- OLED color display with super brightness and contrast
- Very robust casing and IP65 protection level



SVAN 971

Technical Specification

Sound Level Meter

Standards	Class 1: IEC 61672-1:2002
Weighting Filters	A, B, C, Z
Time constants	Slow, Fast, Impulse
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB
Microphone	ACO 7052E, 35 mV/Pa, prepolarised 1/2" condenser microphone
Calibration	Automatic calibration @ 114 dB/1 kHz
Preamplifier	Detachable
Linear Operating Range	25 dBA RMS ÷ 140 dBA Peak (in accordance to IEC 61672)
Total Dynamic Measurement Range	15 dBA RMS ÷ 140 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level	less than 15 dBA RMS
Dynamic Range	>110 dB
Frequency Range	10 Hz ÷ 20 kHz
Meter Mode Results	SPL, L_{eq} , SEL, L_{den} , L_{tm3} , L_{tm5} , L_{Max} , L_{Min} , L_{Peak} plus "running Leq" up to 60 minutes Simultaneous measurement in three profiles with independent set of filters and detectors
Statistics	L_n (L_1 - L_{99}), complete histogram in meter mode
Data Logger	Time-history logging of summary results, spectra with adjustable double logging steps down to 100 s
Audio Recording	Audio events recording, trigger and continuous mode, 12 kHz sampling rate, wav format (option)
Voice Comments	Audio records on demand, created before or after measurement, added to measurement file

Noise Dosimeter

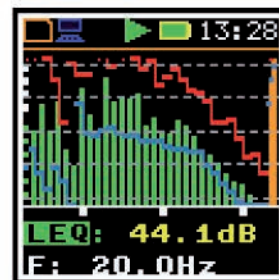
Dosimeter Mode Results	SPL, L_{eq} , SEL, L_{Peak} , Dose, D-8h, Lav, SEL8, PSEL, E, E-8h, TWA, 'Peak Counter' and more Exchange Rate 2, 3, 4, 5, 6 (option)
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Sound Analyser

1/1 Octave Analysis	Real-time analysis meeting Type 1 requirements of IEC 61260, centre frequencies from 31.5 Hz to 16 kHz (option) available simultaneously with three profiles for broadband measurements (SLM), time-history logging and audio recording
1/3 Octave Analysis	Real-time analysis meeting Type 1 requirements of IEC 61260, centre frequencies from 20 Hz to 20 kHz (option) available simultaneously with three profiles for broadband measurements (SLM), time-history logging and audio recording

Basic Data

Ingress Protection Rating	IP 65 (excluding microphone)
Input	Preamplifier (60 UNS thread)
Memory	MicroSD card 4 GB (removable & upgradeable)
Display	Colour 96 x 96 pixels OLED type
Keyboard	8 push buttons
Communication Interfaces	USB 2.0 client RS 232 cable (optional)
Power Supply	Four AAA alkaline or rechargeable NiMH batteries operation time 16 h ÷ 24 h (depending on usage) USB interface 100 mA HUB
Environmental Conditions	Temperature from -10 °C to 50 °C Humidity up to 95 % RH, non-condensed
Physical Characteristics	Dimensions 232,5 mm x 56 x 20 mm (including microphone and preamplifier) Weight Approx. 225 grams with batteries



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

