



# SVAN 979

Class 1

## Sound & Vibration Level Meter

The SVAN 979 is a top-of-the-range Class 1 sound level meter and analyser, renowned for its superior technical specifications. With a measuring range starting from as low as 12 dBA, this instrument is ideal for acoustic engineering applications, including sound insulation measurements and precise frequency or signal tonality analysis.

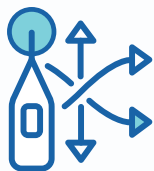
This advanced tool is equipped with frequency analysis in 1/1 and 1/3 octave bands, FFT analysis, and audio recording for noise source recognition. Additionally, the basic kit includes a building acoustic pack featuring RT60 measurement and signal generator functions. The SVAN 979's high accuracy and comprehensive features make it an indispensable asset for detailed acoustic assessments and professional-grade measurements.





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## Sound & Vibration Level Meter



### Universal Applications

Versatile  
for Various Needs

Complete setup for building acoustics (RT60, signal generator, STIPA), audio analysis (tonality and loudness options), sound and vibration (acceleration, velocity, and displacement), and outdoor measurements for sound and vibration consultants.



### Top Model

The Ultimate Sound  
and Vibration Meter

The most advanced class 1 sound and vibration level meter, with a measurement range starting at 12 dBA and a frequency range down to 3.15 Hz, featuring the highest quality GRAS microphone. Used as a reference meter by calibration laboratories.



### All in One

Comprehensive  
Measurement Capabilities

A class 1 sound level meter with frequency analyzer (1/3 octave, FFT) and 48kHz WAV recording, making it the most precise device on the market for professional acoustic consultants.

## Key Features



Class 1 sound & vibration level meter

The SVAN 979 is a class 1, type-approved sound and vibration level meter and analyzer dedicated to acoustic engineering applications such as sound insulation measurements, precise frequency, or signal tonality analysis.



Real-time frequency analysis

Depending on the application, frequency analysis can be done in the 1/1 octave, 1/3 octave spectra, or FFT bands.



WAV recording

The time domain signal recording to WAV format with a defined frequency up to 48 kHz. Post-processing of high-quality wave files (48 kHz, 24-bit) is available in SvanPC++ program.



Reverberation time measurements

The RT 60 functionality in the instrument offers fast verification of results on-site. Calculation of RT 60 values is based on 1/1 or 1/3 octave logging results. The smartphone application helps the user in calculating the insulation in accordance with ISO 16283.



STIPA in accordance with IEC 60268

In organizing STIPA measurements and calculations, the meter is supported by a dedicated mobile application.



Infrasound from 3.15 kHz

With an optional microphone and 1/3 octave or FFT analysis capabilities, the SVAN 979 provides infrasound analysis starting from 3.15 Hz. The implementation of the G-weighting filter makes this instrument an ideal choice for measurements on wind farms, where infrasound measurements are often required.



Vibration level meter

If you disconnect the microphone preamplifier, you can use the instrument to take vibration measurements – simply by connecting a cable and a vibration sensor.

## Building Acoustics for Professionals

The SVAN 979 delivers high-accuracy measurements with millisecond spectra logging, essential for facade, airborne, and impact sound insulation assessments. Predefined setups and the Assistant PRO app streamline multi-point measurements, allowing remote control of the instrument and sound source.

Equipped with a signal generator for pink noise, white noise, or sine waves, the SVAN 979 supports detailed acoustic testing. On-site RT60 verification is swift, with comprehensive calculations handled by SvanPC++ Building Acoustic software.

Excelling in 1/1 and 1/3 octave frequency analysis, the SVAN 979 ensures precise RT60 and sound insulation results. The Building Acoustics PRO app guides users through procedures, enhancing reports with photos and descriptions compliant with ISO 16283 standards.

Additionally, the SVAN 979 performs STIPA measurements, crucial for assessing speech intelligibility in public address systems and educational environments, making it an indispensable tool for building acoustics professionals.

## Optional accessories



SC 93  
Extension Cable  
for Preamplifier



SA 420B  
Tripod Up To 4 m Height



SM 279 PRO  
Outdoor  
Monitoring Case



SA 279  
Microphone Outdoor  
Protection Kit



SV 36 Class 1  
Acoustic Calibrator  
94 dB / 114 dB at 1 kHz



SV 80  
IEPE Accelerometer  
100 mV/g

## Technical Specifications

Sound Level Meter & Analyser		
Standards	Class 1: IEC 61672-1:2013 (type approved); Class 1: IEC 61260-1:2014	
Weighting Filters	A, C, Z, B, G (infrasound)	
Time Constants	Slow, Fast, Impulse	
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.01 dB	
Microphone	GRAS 40AE, 50 mV/Pa, prepolarised 1/2" condenser microphone	
Preamplifier	SV 17 Voltage type (supports 200 V polarisation)	
Linear Operating Range	22 dBA RMS ÷ 140 dBA Peak (in accordance to IEC 61672)	
Dynamic Range	12 dBA RMS ÷ 140 dBA Peak (typical from noise floor to the maximum level)	
Internal Noise Level	12 dBA RMS (acoustically compensated)	
Frequency Range	3.15 Hz ÷ 20 kHz, with GRAS 40AE microphone	
Sound Level Meter Results	Elapsed time, Lxy (SPL), Lxeq (LEQ), Lxpeak (PEAK), Lxymax (MAX), Lxymin (MIN), Ovl (OVERLOAD %), Lxye (SEL), LN (LEQ STATISTICS), Lden, LEPd, Ltm3, Ltm5	
Measurement Profiles	Simultaneous measurement in three profiles with independent set of filters (x) and detectors (y)	
Statistics	Ln (L1-L99), complete histogram in meter mode and 1/1 or 1/3 octave analysis	
Data Logger	Time-history logging of summary results, spectra with two adjustable logging steps down to 2 ms	
Analyser	1/1 or 1/3 octave real-time analysis FFT 1600 lines, up to 20.0 kHz band RT 60 - Reverberation time analysis in 1/1 or 1/3 octave bands 1/6 or 1/12 octave real-time analysis (optional) Loudness - based on ISO 532B standard and Zwicker model (optional) Tonality - pure tone detection meeting ISO 1996-2 Tonality (optional) User programmable second order band pass filters (optional)	
Audio Recording	Audio recording on trigger or continuous mode, 12 / 24 / 48 kHz sampling rate, wav format	
Vibration Level Meter & Analyser		
Standards	ISO 20816-1	
Meter Mode	RMS, Max, Peak, Peak-Peak Simultaneous measurement in three profiles with independent filter sets and detectors	
Filters	HP1, HP3, HP10, Vel1, Vel3, Vel10, VelMF, Dil1, Dil3, Dil10, Wh	
Accelerometer	SV 80 (100 mV/g) or any IEPE accelerometer (optional)	
Analyser	1/1 or 1/3 octave real-time analysis FFT real-time analysis 1600 lines, up to 20.0 kHz band 1/6 or 1/12 octave1 real-time analysis (optional) RPM rotation speed measurement parallel to the vibration measurement (optional) User programmable second order band pass filters (optional)	
Data Logger	Time-history logging of summary results, spectra with two adjustable logging steps down to 2 ms	
Time-domain Signal Recording	Continuous or triggered time-domain signal recording to WAV format	
General information		
Input	LEMO 7-pin: Direct AC, Direct AC with 200 V polarisation, Direct DC or IEPE type with TEDS	
Memory	MicroSD card 16 GB (removable & upgradeable up to 128 GB)	
Display	Super contrast (10000:1) OLED 2.4" colour display (320 x 240 pixels)	
Communication Interfaces	USB 1.1 Client, USB 1.1 Host, Bluetooth, RS 232 (with optional SV 55) GPS time synchronisation and positioning (optional) Extended I/O - AC output (1 V Peak) or Digital Input/Output (Trigger – Pulse)	
Power Supply	Four rechargeable AA batteries External power supply USB interface	operation time 8 h ÷ 12 h (4.8 V / 2.6 Ah)* 6 V/500 mA DC ÷ 15 V/250 mA DC 500 mA HUB
Environmental Conditions	Temperature Humidity	from -10 °C to 50 °C (14 °F to 122 °F) up to 95 % RH, non-condensed
Dimensions	310 x 79 x 39 mm (with microphone and preamplifier)	
Weight	Approx. 0.6 kg with batteries	

\* depending on configuration and environmental conditions

The policy of our company is to continually innovate and develop our products. Therefore, we reserve the right to change the specifications without prior notice.