

SV 104 Personal Noise Dosimeter

Powerful Personal Noise Measurement for Improved Worker Safety and Hearing Protection Selection

Enhanced Design

Rugged enclosure with durable MEMS microphone for greater shock and damage resistance

Color OLED display makes it easy to read results in dim light or direct sunlight

Precision Measurement

Three simultaneous, independent dosimeter measurements for OSHA PEL, OSHA HCA, ACGIH, or custom configurations

Real-time octave band analysis provides hearing protector selection data

Results Verification

Audio recording for peak or threshold noise-source identification

MEMS triaxial vibration sensor records possible instrument impacts

Data Analysis & Reporting

Customizable viewing, report generation and history database

Instrument manager and profile configuration

The Svantek SV 104 is the most powerful and versatile noise dosimeter on the market. The three independent dosimeter profiles provide simultaneous measurements for OSHA PEL, OSHA HCA, ACGIH, or custom configurations in real-time within the compact dosimeter. These profiles allow safety professionals to perform multiple simultaneous surveys resulting in cost and time savings. Additionally, the octave band real-time analysis provides the data required for selection of personnel hearing protection.

The SV 104 is an industrial instrument with a robust design. Its rugged enclosure is paired with a MEMS microphone for increased shock and damage resistance. The color OLED display makes results and menus easy to read even in dim light or direct sunlight. The LED measurement indicator provides warning of dose level exposures.

Noise surveys are more dependable with the SV 104 due to the incorporation of a triaxial MEMS vibration sensor that detects possible impacts and knocks, which could identify false spikes in results. It also has a locking keypad preventing tampering during surveys. For noise source identification, the audio recording feature saves sound clips to on-board memory when a threshold is exceeded.

The Supervisor software accompanies the SV 104 at no cost. This powerful tool provides easy management of your Svantek sound and vibration products including data download and reporting as well as instrument setup.



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Specifications

Noise Dosimeter - Three Simultaneous Profiles

Standards	ANSI S1.25-1991; IEC 61252;
Weighting filters	A, C and Z
Time constants	Slow, Fast, Impulse
Exchange rates	5, 3 (plus 2, 4, and 6)
Measurement results	Lavg/Leq, SPL, Max, Min, SEL, SEL8, PSEL, LEPd, Dose (%), TWA, E, E_8h, Peak, Run Time, Upper Limit Time (ULT), L(C-A), Projected Dose (D_8h)
Measurement profiles	3 unique real-time virtual dosimeters with independent setup profiles
Microphone	Class 2 microphone, 1/2" housing
Measurement range	55 dBA RMS ÷ 140.1 dBA Peak
Frequency range	30Hz to 8kHz
Dynamic range	95 dB
Data logging	Summary results for measurement time; Time-history logging of Leq/Max/Min/Peak with 1s logger step
Voice comments	Audio records on demand, created before or after measurement, added to measurement file
Audio recording	Audio events recording, trigger and continuous mode, 12 kHz sampling rate, wav format (option)
1/1 octave	Real-time analysis in octave band filters
Threshold	9 filters with centre frequencies from 31.5 Hz to 8 kHz (option) Any level between 70 and 90 dB in 5 dB steps



Physical and Environmental

Display	Full color 128 x 64 pixel graphic OLED display	
Memory	8 GB micro SD card	
Interfaces	USB 2.0 client	
Keyboard	3 push buttons with lockout	
Power supply	NiMH rechargeable cells	operation time > 40 hours
	USB interface	500 mA HUB
Environmental conditions	Temperature	from -10 oC to 50 oC
	Humidity	up to 90 % RH, non-condensed
Dimensions	3.5 x 1.9 x 0.8 inches (88 x 49.5 x 19.2 mm)	
Weight	3.5 ounces (100 grams) with batteries	

PC Software Suite

The SV 104 works with Svantek's specialist health and safety software package "Supervisor" and the full analysis package SvanPC++.

Supervisor is the latest software package from Svantek that provides the health and safety specialist with everything they need. Data can be stored by instrument, by user or by site and the amazingly versatile reporting package keeps the acoustic professional in full control.



We reserve the right to modify product specifications without notice.

