

# SV 104

## Compact Personal Noise Dosimeter

The SV 104 instrument is a revolutionary new approach to occupational health and safety noise monitoring offering voice comments and audio events recording functions which are a new concept in an instrument of this size.

The measurement data is safely stored in the large 8 GB memory and the amazing OLED screen displays information in both text and graphical form and offers excellent visibility even in full daylight.

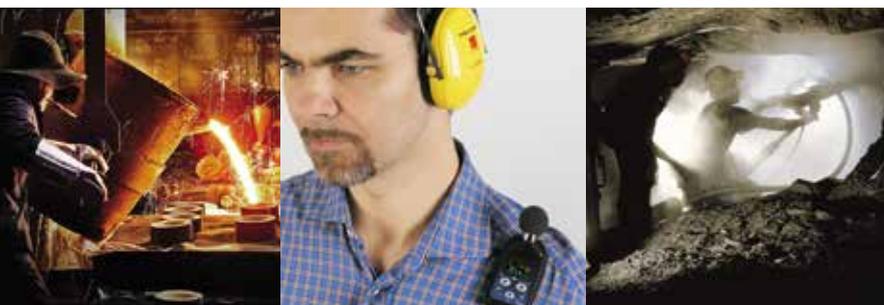
The SV 104 is a cable-free dosimeter and is typically attached to the user's shoulder, close to the ear using the mounting clips supplied. This personal dosimeter has a robust 1/2" MEMS microphone enabling easy calibration using most commonly available acoustic calibrators.

The SV 104 is powered using rechargeable batteries or through the USB interface which also enables easy connection between the SV 104 and a PC.

The instrument works with Svantek's specialist health and safety software package, "Supervisor", and also with the full analysis package SVAN PC++.

### Features

- Acoustic Dosimeter conforming to IEC 61252 and ANSI S1.25-1991
- Measurement range 55 dBA RMS ÷ 140 dBA Peak
- 1/1 octave real-time analysis
- Three parallel measurement profiles
- Audio events recording
- Voice comments recording
- Automatic calibration start
- Large 8GB memory
- USB 2.0 interface
- OLED color display with super brightness and contrast
- Easy in use predefined setups
- Operational time > 40 hours
- Extremely compact, light weight and robust case



# SV 104

## Technical Specification

### Dosimeter

Standards	IEC 61252; ANSI S1.25-1991
Weighting filters	A, C and Z
Time constants	Slow, Fast, Impulse
Exchange rates	2, 3, 4, 5, 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
Microphone	Class 2 microphone, 1/2" housing
Measurement Range	55 dBA RMS ÷ 140.1 dBA Peak
Frequency Range	30 Hz ÷ 8 kHz
Dynamic Range	95 dB
Data Logging*	Summary results for the measurement time Time-history logging of Leq/Max/Min/Peak with 1s logger step
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
1/1 Octave*	Single channel 1/1 octave real-time analysis and spectra logging, 9 filters with centre frequencies from 31.5 Hz to 8 kHz (option)

### Basic data

Display	OLED 128 x 64 pixels
Memory	8 GB
Interfaces	USB 2.0 client
Keyboard	3 push buttons
Power Supply	Ni-MH rechargeable cells operation time > 40 hours** USB interface 500 mA HUB
Environmental Conditions	Temperature from -10 °C to 50 °C Humidity up to 90 % RH, non-condensed
Dimensions	88 x 49.5 x 19.2 mm
Weight	100 grams with batteries

\*function parallel to the acoustic dosimeter mode

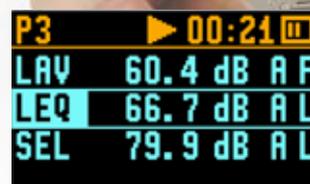
\*\*in single-channel mode, display off



*Dose result in 1st profile*



*Dosimeter results in 2nd profile*



*SLM results in 3rd profile*

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

DISTRIBUTOR:

**SVANTEK** Sp. z o. o.  
ul. Strzygłowska 81, 04-872 WARSAW, POLAND  
phone/fax (+48) 22 51 88 320, (+48) 22 51 88 312  
<http://www.svantek.com> e-mail: [office@svantek.com.pl](mailto:office@svantek.com.pl)