

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.

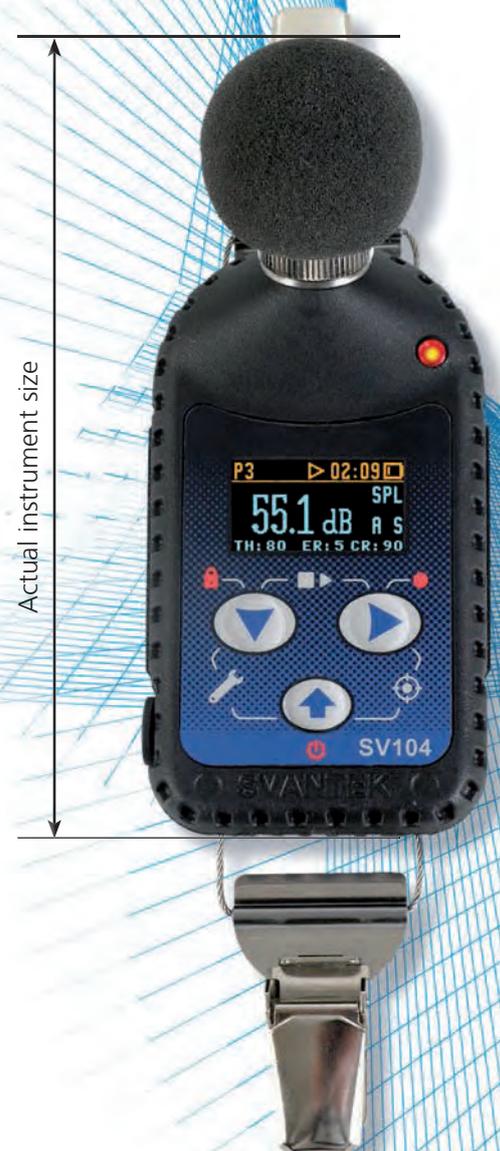
This personal dosimeter has a robust 1/2" MEMS microphone enabling easy calibration using most commonly available acoustic calibrators. Automatic calibration is available thanks to the built-in TEDS (Transducer Electronic Data Sheet) information.

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

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.

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 thanks to the TEDS technology
- 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 type	Class 2 microphone, 1/2" housing with built-in TEDS functionality for the automatic calibration
Measurement Range	55 dBA RMS ÷ 140.1 dBA Peak
Frequency Range	30 Hz ÷ 8 kHz
Dynamic Range	80 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

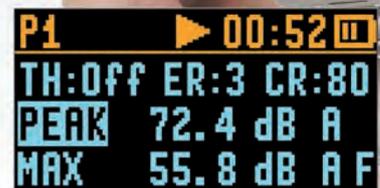
**in single-channel mode, display off



SLM result in 1-profile, view 1



SLM results in 1-profile, view 2



SLM results in 1-profile, view 3

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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