

SV 102

Dual Channel Acoustic Dosimeter

The SV 102 dual channel instrument presents completely new approach to occupational health and safety acoustic monitoring task. The binaural dose measurements and the 1/1 octave analysis are simultaneously performed. Octave analysis brings direct data for the ear-protectors design. This all innovated functionality, in extremely compact size instrument, shows the new reference standard on acoustic dose measurements field, now commonly available.

The SV 102 dosimeter is offered with the dedicated SV 25D ceramic microphones with 1/2" housing. It makes the calibration very easy by direct usage of commonly available acoustic calibrators. The very robust casing of the SV 25D microphone together with the special mounting clip and dedicated headband make that microphones are attached very easy in extremely short distance, to the human ears.

SV 25S, special version of the SV 25D microphone, dedicated for the measurements under the ear-protectors is also available.

The SV 102 can be also used as a dual channel type 2 sound level meter and real time 1/1 octave analyser. Three acoustic profiles per channel allow parallel measurements with independently defined filters and RMS detector time constants. Advanced time history logging for each profile together with spectra saving provides complete information about measured signal in non-volatile, up to 128 MB, internal memory. Data files are easy downloaded to any PC using USB interface and SvanPC+ software.

Instrument is powered from two AA standard or rechargeable batteries – in this case separate charger is required. The powering of the instrument from the USB interface is also provided (easy data download).

FEATURES

- Dual channel Acoustic Dosimeter conforming to IEC 61252 and ANSI S1.25-1991
- Dual channel type 2 Sound Level Meter conforming to IEC 61672
- Dual channel 1/1 octave analysis
- Single measurement range
- Measurement range 50 dBA RMS ÷ 141 dBA Peak
- Three parallel independent profiles
- Advanced Data Logger, up to 12 results per channel logged simultaneously and spectra
- Built-in non-volatile memory up to 128 MB
- USB 1.1 interface
- Large LCD with backlight
- Integration time programmable up to 24 h
- Power supply by two AA rechargeable or standard batteries
- Operational time > 24 h
- Only 260 grams including batteries
- Easy operation
- Extremely compact, light weight and robust case (volume comparable to PDA devices)



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INSTRUMENTATION FOR SOUND & VIBRATION
MEASUREMENTS

TECHNICAL SPECIFICATIONS

DOSIMETER / SLM / ANALYSER

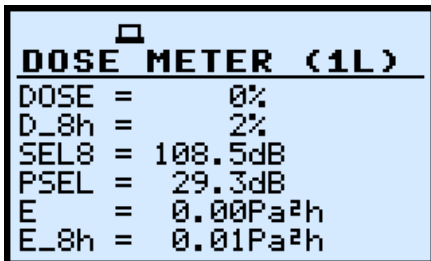
Standards	IEC 61252-1993; ANSI S1.25-1991, Type 2 : IEC 61672:2002
Acoustic dosimeter mode	L_{eq} , Spl, Peak, SEL, DOSE, D_8h, LAV, SEL8, PSEL, E, E_8h and more Simultaneous measurement to the 1/1 octave analysis
SLM mode	L_{eq} , Spl, SEL, $L_{EP,d}$, L_{den} , L_{tm3} , L_{tm5} , statistics - L_n (L_1 - L_{99}), L_{Max} , L_{Min} , L_{Peak} Simultaneous measurement in three profiles with independent set of filters and detectors
Weighting Filters	A, C and Z
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB Time Constants: Slow, Fast, Impulse
Microphone	SV 25D, Type 2, ceramic microphone, 1/2" casing with built-in preamplifier & integrated cable SV 25S, Type 2, ceramic microphone, special version of the SV25D for measurements under ear-protectors (option)
Measurement Range	50 dBA RMS ÷ 141 dBA Peak
Frequency Range	20 Hz ÷ 8 kHz, sampling rate 48 kHz
Dynamic Range	90 dB
Data Logger*	Time History logging of RMS / Max / Min / Peak results to internal memory with time step down to 1 second, up to 24 measurement results logged simultaneously
Dual channel mode	Second SV 25D microphone and dual channel measurement mode (option)
1/1 octave*	Dual channel 1/1 octave real time analysis and spectra logging, 9 filters with centre frequencies from 31.5 Hz to 8 kHz, Type 1, IEC 61260 (option)

BASIC DATA

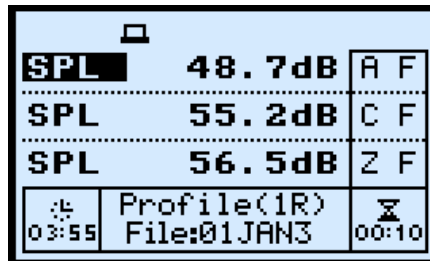
Input	2 x Lemo 2 pin	
Display	LCD 128 x 64 pixels plus icons with backlighting	
Memory	Up to 128 MB non-volatile flash type	
Interfaces	USB 1.1 Client, External I/O - AC output (1 V Peak) / Digital Output (Alarm trigger) / Digital Input (Input trigger)	
Power Supply	Two AA batteries (alkaline)	operation time > 20 h (3.0 V / 1.6 Ah)**
	Two rechargeable batteries (not included)	operation time > 24 h (2.4 V / 2.6 Ah)**
	USB interface	150 mA HUB
Environmental Conditions	Temperature	from -10 °C to 50 °C
	Humidity	up to 90 % RH, non-condensed
Dimensions	95 x 83 x 33 mm (without microphones)	
Weight	260 grams with batteries	

* function parallel to the acoustic dosimeter mode or meter mode

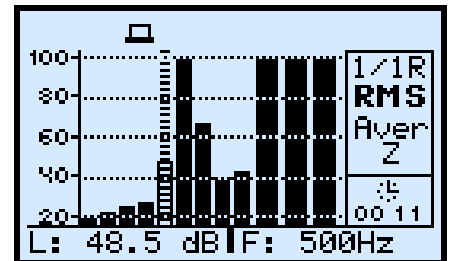
** in single channel dose meter mode and backlight off



Acoustic dose measurements



SLM results in 3 profiles view



1/1 octave analysis

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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