

SV 200

All In One Noise Monitoring System

SV 200 is a fully integrated solution for unattended noise monitoring applications featuring an internal web server for system configuration, live data streaming, data management and battery powered operation providing true flexibility for both short and long term measurements. The measurement capabilities of the SV 200 are optimized for noise monitoring applications. It measures and stores results suitable for automatic reports, detailed information for advanced post-processing analysis and streams live data stream for real time noise monitoring. Standard measurement functionality includes multi-profile data logging, real time 1/1 and 1/3-octave logging, audio event recording and statistical analysis. Measuring capabilities can be extended with real time audio streaming and weather condition monitoring. SV 200 can be used for both and 0° and 90° reference direction, typically used for aircraft and environmental noise. The reference direction is user selectable in the instrument configuration. The weatherproof housing protects SV 200 noise monitoring station against extreme weather conditions while fulfilling

class 1 accuracy. Special attention was given to the highly efficient windscreen which reduces noise, even at high wind speeds. Internal heating and rugged a dual layer housing enables the SV 200 to operate from -30 °C up to +50 °C and humidity up to 99 % RH. SV 200 has a 2,9 Ah internal Li-Ion battery and interface for connecting solar panels.

A waterproof mains adapter for charging the battery and powering the station is also included. The system is specially designed for easy installation - SV 200 is small, light-weight and easy to install by a single person.

SV 200 is available with an integrated low power 3G modem or Wi-Fi access point. The implementation of advanced and highly reliable communication protocol gives the user full control of the station, offers easy to use data transmission and real time data publication. Station configuration and data management is done by using a web browser or the SvanPC++ RC server application.

Features

- 'All in one' design for portable, mobile and permanent noise monitoring installations
- Real-time 1/1 or 1/3 octave analysis
- Audio events recording
- Rugged housing protecting the system against harsh environmental conditions (IP65)
- Integrated electrostatic actuator for full system verification
- Class 1 according to IEC 61672
- Integrated high speed 3G or Wi-Fi modem
- Automatic time synchronization
- Large windscreen against high-speed wind
- Intelligent heater protecting microphone against humidity
- Live data streaming capabilities
- Low power consumption, integrated Li-Ion battery and direct connection for solar panels
- Highly reliable and secure data push and configuration pull communication protocol
- Both, server and web based system configuration
- Community & airport characteristics available simultaneously



SV 200

Technical Specification

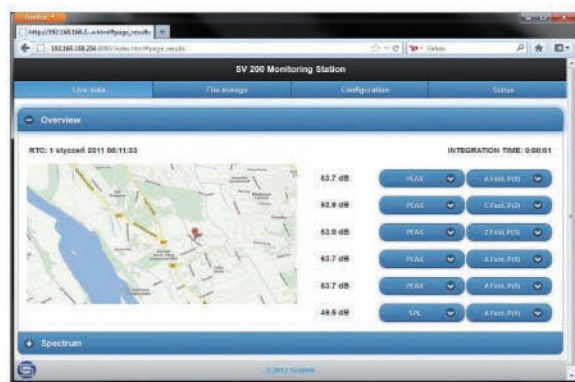
Sound Level Meter

Standards	Class 1: IEC 61672-1:2002, Class 1: IEC 61260:2002
Weighting Filters	A, C, Z
Time Constants:	Slow, Fast, Impulse
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB
Microphone	Microtech Gefell MK 250, 50 mV/Pa, prepolarised 1/2" condenser microphone
Preamplifier	Integrated
Linear operating range	25 dBA RMS ÷ 133 dBA Peak (in accordance to IEC 61672)
Total dynamic measurement range	15 dBA RMS ÷ 133 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level	less than 15 dBA RMS
Dynamic Range	115 dB
Frequency Range	3.5 Hz ÷ 20 kHz
Meter Mode Results	SPL, Leq, SEL, Lden, Ltm3, Ltm5, LMax, LMin, LPeak
Statistics	Simultaneous measurement in three profiles with independent set of filters and detectors Ln (L1-L99), complete histogram in meter mode and 1/1 & 1/3 octave analysis
1/1 Octave Analysis	Simultaneous measurement in three profiles with independent set of filters and detectors Real-time analysis meeting class 1 requirements of IEC 61260 (4 Hz ÷ 16kHz)
1/3 Octave Analysis	Real-time analysis meeting class 1 requirements of IEC 61260 (3.15 Hz ÷ 20 kHz)
Data Logger	Logging of summary results, spectra and weather data with logging step down to 1 second and time history of selected parameters with short logging step down to 2 millisecond
Audio Events Recording	Time domain records to wav file format on demand with selectable bandwidth and recording period

Basic Data

Ingress Protection Rating	IP 65
Inputs	Power supply LEMO 3-pin, extended I/O port LEMO 9-pin
Remote Calibration	Built-in electrostatic actuator, triggered manually or in automated mode
Memory	Micro SD card 16 GB (non-removable)
Display & Keyboard	External 1.1" OLED colour display (option)
Communication interfaces	USB / Serial port (RS 232 with optional cable) 3G modem (included in SV 200_3G) Wi-Fi / LAN module (included in SV 200_WiFi)
Power Supply	External trigger input 0-30 V with pull-up 47 kOhm at 3.3 V Li-Ion rechargeable battery (non-removable) operation time > 48 hours (14.4 V / 2.9 Ah) ¹ Solar Panel (not included) MPPT voltage 17.0 V ÷ 20.0 V AC power supply (included) – Input 100-240 VAC, output +24 VDC 2.5 A, IP66 housing External DC source (not included) – voltage range 10.5 V – 24 V, e.g. 12 V or 24 V accumulator
Environmental Conditions	Temperature from -30 °C ² to 50 °C Humidity up to 99 % RH
Physical Characteristics	Dimensions 840 mm length; 70 mm diameter excluding windscreen; windscreen diameter 130 mm Weight Approx. 2.3 kg with batteries

¹ Meter mode, time history logging step 1 second, 3G modem transmission 10 % of the measurement time, ² Only with external powering



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

DISTRIBUTOR:

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