SV277 pro Noise Monitoring Station





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Features

The **3G MODEM** provides fast data transfer SV 277 PRO is a portable monitoring system over the Internet to PC with standard housed in a waterproof case dedicated for Internet connectivity. periodic **OUTDOOR** measurements. Once you insert SIM card the remote The station is based on **SVAN 977** which can communication settings are automatically be easily removed from the case and used as adjusted to connect to SvanNET. a hand-held sound level meter. Station can be powered from an internal **CLASS 1** noise measurements are battery or external DC power supply and performed over a very wide dynamic range is ready for direct connection of a SOLAR - over 110 dB from 10 Hz up to 20 kHz. **PANEL.** The powering is managed by the intelligent charging unit. The **TIME-HISTORY** of results such as Leq, Max, Min and Peak with two simultaneous logging steps is saved on Station uses waterproof **CHARGER** that is designed for outdoor use. 4 GB microSD card (upgradeable up to 128 GB) Military standard **CONNECTORS** provide reliable, robust and The station can perform real-time frequency waterproof cable connections. analysis in 1/1 OCTAVE bands and save it as time-history data.

About

SV277 PRO is an outdoor monitoring system based on SVAN 977 Class 1 sound level meter. The IP 65-rated case contains a lead-acid battery which operating time can be easily extended by connecting an external battery or a solar panel. The intelligent charging unit enables use of a solar panel without expensive controllers or heavy batteries.

The case is fitted with very robust, waterproof connectors (military standard) and is supplied with an IP 65 external power supply. The light-weight microphone protection kit can be easily installed on a mast with standard mounting threads. All accessories fit conveniently into a second carrying case.

The system provides broad-band results such as Leq, Max, Min and Peak with all standard weighting filters together with an incredible time-history logging feature with two adjustable logging steps. The broad-band results can be recorded in three acoustic profiles which enable measurements to be taken with 3 different filters (e.g. A, C, Z) as well as 3 different detector time constants (e.g. Fast, Slow, Impulse). The SVAN977 can be easily removed from the case and used as a hand-held sound level meter.

The monitoring station uses a 3G modem for the remote communication with Internet. SvanNET, a relay server, supports the connection between PC and station. The SvanNET allows the usage of all types of SIM cards with the system, regardless if they have public or private IP. The connection over the SvanNET allows users to use a mobile phone or tablet to check the status of the noise monitoring station.

What's inside?



The SV277 PRO kit consists of two carrying cases. The main unit is a waterproof carrying case with internal 17 Ah battery and internal charging unit supporting powering from external DC or solar panel. The SVAN 977 Class 1 sound level meter is installed inside.

The outdoor charger and outdoor microphone kit are packed inside the second transportation case. The kit includes license for SvanPC++ software and SvanNET base account. Each kit has its factory calibration certificate and **36 MONTHS WARRANTY CARD.**



Optional functions

SvanNET is a relay server supporting connection between PC and SV 277 PRO and allows usage of all types of SIM cards with the SV 277 modem, regardless if they have public or private IP. The SvanNET provides a web interface that allows to watch real-time measurement results on a PC or mobile device, manually download files and reconfigure the station.

SvanPC++ is a PC software providing functions such as measurement data downloading from instruments to PC, measurement setups creating, basic Leq/RMS recalculation, measurement results in text, table and graphical form of presentation, export data to spread sheet or text editor applications.



SvanPC++ Remote Communication software package offers advanced features such as automatic data download, CSV and HTML data publishing as well as FTP upload. The SvanPC++_RC module supports configuration of the monitoring station as well as configuration **of advanced alarms** that combine triggers based on time with noise thresholds. It can be activated at any time by entering the activation code.



SvanPC++ Environmental Monitoring is designed for post-processing of data recorded by monitoring station. The module offers a powerful calculator and an automated noise event finder for noise source identification. Thanks to its "Projects" functionality, SvanPC++_EM allows to combine and compare data from multiple measurements as well as create and save reports in MS Word™ templates. It can be activated at any time by entering the activation code.



The option for **1/3 OCTAVE REAL-TIME ANALYSIS** allows the analysis of the noise frequency contents. The statistical analysis in 1/3 octave band is used for verification of noise sources in the environment. It can be activated at any time by entering the activation code.



The option of **TIME DOMAIN SIGNAL RECORDING** to WAVE format works during measurement and is logged in parallel to a time history. Once downloaded to PC it can be played back. Settings such as triggers or recording time are adjustable. In addition to audio play-back, WAVE file can be post-processed in **SvanPC++** software that provides calculation of overall results such as Leq, Lmax, Lmin, Lpeak as well as 1/3 octave and FFT calculations or tonality. It can be activated at any time by entering the activation code.

Optional Accessories



SA 206 Mast to Microphone Protection Kit



SV 35A Class 1 Acoustic Calibrator 94 dB / 114 dB at 1 kHz



SB 270_EB External Battery 33 Ah to Monitoring Station



SB 270_SP Solar Panel to Monitoring Station

Technical Specifications







SV 277 PRO Noise Monitoring Station

Remote Communication Power Supply	3G modem DC power supply / charger 11 V ÷ 30 V (waterproof) Internal battery 17 Ah / 12 V Secondary external battery 33 Ah / 12 V (optional)
	Solar panel (optional)
Operating time on battery	4 days with continuous modem transmission
	8 days with modem switched off
	Test Conditions: meter mode, display dimmed,
	2 ms time-history logger, continuous event recording
Microphone protection kit	SA 277 outdoor protection kit (IP 65)
Environmental Conditions	Temperature -10 °C ÷ +50 °C
Dimensions	300 x 260 x 190 mm (without antenna and cables)
Weight	Approximately 9 kg including battery
	Our Company's policy is based upon continuous product development and innovation. Therefore, we reserve the right to change the specifications without any prior notice whatsoever.

Main Applications





Noise Emission Monitoring



Community Noise Monitoring

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SVAN 977 Sound Level Meter & Analyser

SVANTEK Sp. z o. o.