SVANTEK
monitoring systems

SV 303

Noise Monitoring Terminal

The SV 303 is a state-of-the-art Noise Monitoring Terminal (NMT) designed for comprehensive urban noise monitoring within smart city applications. As a cost-effective solution, it addresses the need for accurate, large-scale noise assessment in urban environments, ensuring that cities can effectively manage and mitigate noise pollution. This terminal is compliant with Class 1 standards according to IEC 61672-1:2013 and IEC 61260-1:2014, offering a wide operating range of 30 dBA to 130 dB RMS, which is perfectly suited to capture the diverse soundscape of urban settings from the quiet of night to the bustling activity of the day.

Technical specification

Standards	Class 1: IEC 61672-1:2013, Class 1: IEC 61260-1:2014	
Weighting Filters	A, B, C, Z, LF	
Time Constants	Slow, Fast, Impulse	
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB	
Microphone	Patented MEMS based design microphone ST 30B in 1/2" housing	
Preamplifier	Integrated	
Linear Operating Range	30 dBA ÷ 130 dB RMS (in accordance to IEC 61672)	
Dynamic Measurement Range	23 dBA ÷ 133 dB Peak (typical from noise floor to the maximum level)	
Internal Noise Level	Less than 23 dBA RMS	
Frequency Range	20 Hz ÷ 20 kHz	
Meter Mode Results	Elapsed time, Lxy, Lxeq (LEQ), Lxpeak (PEAK), Lxymax (MAX), Lxymin (MIN), LxyE (SEL), 2 x LR (ROLLING LEQ),10 x LN (LEQ STATISTICS), Lden, LEPd, Ltm3, Ltm5	
Measurement Profiles	Simultaneous measurement in three profiles with independent set of filters (x) and detectors (y)	
Statistics	L_n (L_1-L_{99}), complete histogram in meter mode	
Data Logger	Logging of summary results (SR) and spectra data with interval step down to 1 s and time history (TH) of selected parameters with shorter interval step down to 100 ms	
1/1 Octave Analysis (option)	Real-time analysis meeting Class 1 requirements of IEC 61260, centre frequencies from 31,5 Hz to 16 kHz	
1/3 Octave Analysis (option)	Real-time analysis meeting Class 1 requirements of IEC 61260, centre frequencies from 20 Hz to 20 kHz	
Audio Recording (option)	Time domain records to WAV file format on demand with selectable bandwidth and recording period	
Remote System Check	Real-time system check and Built-in sound source producing level of 100 dB at 1 kHz	
Memory	8 GB (non-removable)	
Display and Keyboard	OLED colour display 96 x 96 px and 4 push-button keyboard	
Communication Interfaces	USB, UART	
Ingress Protection Rating	IP 65	
Power Supply	Li-Ion rechargeable battery Operation time on battery External DC source USB-C	(non-removable) up to 8h 5 V, 1A
Environmental Conditions	Temperature Humidity	from -20 °C to 60 °C up to 95 % RH, non-condensed
Dimensions	600 mm length; 66 mm diameter excluding windscreen (windscreen diameter 130 mm)	
Weight	Approx. 1.2 kg	

The policy of our company is to continually innovate and develop our products.
Therefore, we reserve the right to change the specifications without prior notice.

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