SVANTEK
sound and vibration

SV 810

Air-Overpressure Meter for Blast Monitoring

The Svantek **Air-Overpressure Meter** is dedicated for precision measurement and monitoring of impulsive noise generated during **blasting operations**. With a frequency range of 2 Hz to 250 Hz, in full compliance with the **ISEE Blasting Seismograph Standards (2022)**, and an extended peak measurement capability **up to 168 dB**, it ensures compliance with environmental and industrial regulations. Designed for **field autonomy**, the unit operates independently for up to 8 hours and records data directly to an SD card. **Seamless integration** with SV 803, SV 804 and SD 311 systems enables flexible deployment in both standalone or networked configurations. An optional **weather-resistant enclosure** shields the unit from external conditions, ensuring reliable performance in the field. Equipped with a **UART interface** and external power support, it is ideally suited for **high-pressure, low-frequency noise monitoring** in demanding industrial environments.

Technical specification

Standards	ISEE - 2022	
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB	
Pressure Sensor	Air-Overpressure Sensor	
Preamplifier	Integrated	
Dynamic Measurement Range	105 dB Peak ÷ 168 dB Peak (3.6 Pa ÷ 5 kPa)	
Internal Noise Level	Less than 95 dB Peak	
Frequency Weighting	Linear	
Frequency Range	2 Hz ÷ 250 Hz (in line with ISEE -2022)	
Meter Mode Results	Lpeak, Lmax, Lmin. Leq, DF, Overload Time	
Measurement Profiles	Single profile with independent set of filters (x) and detectors (y)	
Data Logger	Logging of summary results (SR) and spectral data with interval step down to 1 s	
Audio Recording	Time domain records to WAV file format on demand with selectable bandwidth and recording period	
FFT	Real time analysis 1600 lines	
Memory	8 GB (integrated)	
Display and Keyboard	OLED colour display 96 x 96 px and 4 push-button keyboard	
Communication Interfaces	USB, UART	
Ingress Protection Rating	IP 65 (optional SA 810 external housing for harsh operating conditions)	
Power Supply	Li-Ion rechargeable battery Operation time on battery External DC source USB-C	(integrated) up to 8 h 5V, 1A
Environmental Conditions	Temperature Humidity	from -20 °C to 60 °C (-4 °F to 140 °F) up to 95 % RH, non-condensed
Dimensions	220 x 55 x 35 mm (360 x 65 mm - optional external housing SA 810, windscreen diameter - 130 mm) 8.66 × 2.17 × 1.38 in (14.17 × 2.56 in - optional external housing SA 810, windscreen diameter - 5.12 in)	
Weight	Approx. 270 g (470 g with optional external housing - SA 810) Approx. 9.5 oz (16,6 oz with optional external housing - SA 810)	

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.