SVANTEK UK

MOLES SV 971A

Outdoor Noise Monitoring System

*only available for a limited time

MOLES (miniature outdoor logger for environmental sound) is a development based on the SV 971A, which allows medium to long-term unattended sound monitoring in all conditions. Its lightweight and small design means it is perfect for conducting noise analysis in any location.

Features

- Long battery life - up to 4 weeks with standard battery
- Licence of 1/1 octaves
- Licence of 1/3 octaves
- Licence of audio events recording
- Licence of reverberation time analysis
  for a limited time only!
- Tough weatherproof case
- Hot swappable batteries
- External battery option
- Extension cable included
- Easily portable

MOLES is an outdoor noise monitoring system which is easily portable, yet low cost. The IP65 rated case contains a lead acid battery which runs the system continuously for over 4 weeks (dependent on ambient temperature and analysis selected). The internal battery can be hot-swapped and external batteries may be connected to extend the life still further.

The supplied SA 271 outdoor microphone protection systems incorporates a desiccator, rain protection and bird spikes, along with a large 130mm windshield, for excellent deduction of wind turbulence noise. Auto calibration can also be enabled, allowing instant access to the calibration menu when a sound level calibrator is applied to the microphone.

MOLES is very simple to operate and the SV 971A can either be set up from your PC or using the instrument's keypad.

SV 971A Specifications

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	ACO SV 7152, 32 mV/Pa, prepolarised 1/2" condenser microphone
Preamplifier	SV 18A detachable (60 UNS thread)
NORMAL Linear Operating Range Dynamic Range	 27 dBA RMS 140 dBA Peak (in accordance to IEC 61672) 20 dBA RMS 140 dBA Peak (typical from noise floor to the maximum level)
LOW Linear Operating Range Dynamic Range	 24 dBA RMS 126 dBA Peak (in accordance to IEC 61672) in a single range 17 dBA RMS 126 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level (acoustical compensated)	20 dBA RMS in the range NORMAL 17 dBA RMS in the range LOW
Dynamic Range	120 dB
Frequency Range	5 Hz 20 kHz (+/- 3 dB)
Sound Level Meter Results	Elapsed time, Lxy (SPL), Lxeq (LEQ), Lxpeak (PEAK), Lxymax (MAX), Lxymin (MIN), where x - weighting filter A/ B/ C/ Z; y - time constant Fast/ Slow/ Impulse LR (ROLLING LEQ OPTION), Ovl (OVERLOAD), Lxye (SEL), LN (LEQ STATISTICS), Lden, LEPd, Ltm3, Ltm5
Sound Exposure Meter Results	Lxy (SPL), Lxeq (LEQ), Lxpeak (PEAK), Lxymax (MAX), Lxymin (MIN), DOSE, (optional) DOSE_8h, PrDOSE, LAV, Lxye (optional) (SEL), Lxye8 (SEL8), PLxye, (PSEL), E, E_8h, LEPd, PTC (PEAK COUNTER), PTP (PEAK THRESHOLD %), ULT (UPPER LIMIT TIME), TWA, PrTWA, Lc-a Exchange Rate 2, 3, 4, 5, 6
Measurement Profiles	Simultaneous measurement in three profiles with independent set of filters (x) and detectors (y)
Statistics	Ln (L1-L99), complete histogram in meter mode
Data Logger	Time-history logging of summary results, spectra with two adjustable logging steps down to 100 ms and down to 2 ms in the RT 60 mode
1/1 Octave Analysis (option)	Real-time analysis meeting Class 1 requirements of IEC 61260, centre frequencies from 16 Hz to 16 kHz
1/3 Octave Analysis (option)	Real-time analysis meeting Class 1 requirements of IEC 61260, centre frequencies from 8 Hz to 20 kHz
Audio Recording (option)	Audio recording on trigger or continuous mode, 12 / 24 / 48 kHz sampling rate, wav format
Voice Comments	Audio records on demand, created before or after measurement, added to measurement file
Memory	MicroSD card 32 GB (removable & upgradeable up to 128 GB)
Display	Colour 96 x 96 pixels OLED type
Keyboard	8 push buttons
Communication Interfaces	USB 2.0, Bluetooth 4.2 SP 76 - RS 232 cable with external power supply connector (optional)
Power Supply	Four AAA alkaline or rechargeable NiMH batteries (not included) Operation time 16 h 24 h (depending on configuration and environmental conditions) USB interface 100 mA HUB
Environmental Conditions	Temperature from -10 C to 50 C (14 F to 122 F) Humidity up to 95 % RH, non-condensed
Dimensions	232.5 mm x 56 x 20 mm (including microphone and preamplifier)
Weight	Approx. 225 grams with batteries (Approx. 8.20 oz)

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.