

Technical Specifications

Sound Level Meter & Analyser	
Standards	Class 1: IEC 61672-1:2013, Class 1: IEC 61260-1:2014
Weighting Filters	A, B, C, Z, LF, U, AU
Time Constants	Slow, Fast, Impulse
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB
Microphone	Microtech Gefell MK 255, 50 mV/Pa, prepolarised 1/2" condenser microphone
Preamplifier	SV 12L detachable (TNC)
Linear Operating Range	23 dBA RMS ÷ 140 dBA Peak (in accordance to IEC 61672-1:2013)
Dynamic Range	16 dBA RMS ÷ 140 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level	Less than 16 dBA RMS
Dynamic Range	110 dB
Frequency Range	3 Hz ÷ 20 kHz with Microtech Gefell MK 255
Sound Level Meter Results	Elapsed time, L _{xy} (SPL), L _x eq (LEQ), L _x peak (PEAK), L _{xy} max (MAX), L _{xy} min (MIN), where x - weighting filter A/ B/ C/ Z; y - time constant Fast/ Slow/ Impulse LR (ROLLING LEQ OPTION), Ovl (OVERLOAD), L _{xye} (SEL), LN (LEQ STATISTICS), L _{den} , LEPd, L _{tm3} , L _{tm5}
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 and 1/1 or 1/3 octave analysis
Data Logger	Time-history logging of summary results, spectra with two adjustable logging steps down to 2 ms
Analyser	1/1 or 1/3 octave real-time analysis, up to 40.0 kHz band meeting Class 1 requirements of IEC 61260-1 FFT analysis 1600 lines, up to 40.0 kHz band (optional) RPM rotation speed measurement parallel to the vibration measurement (optional) RT60 reverberation time measurement (optional) STIPA speech transmission index measurement and calculations (optional)
Audio Recording	Audio recording on trigger or continuous mode, 12 / 24 / 48 kHz sampling rate, wav format (optional)
Vibration Level Meter & Analyser	
Standards	ISO 20816-1
Meter Mode	RMS, Max, Peak, Peak-Peak Simultaneous measurement in three profiles with independent filter sets and detectors
Filters	HP1, HP3, HP10, Vel1, Vel3, Vel10, VelMF, Dil1, Dil3, Dil10, Wh
Accelerometer	SV 80 (100 mV/g) or any IEPE accelerometer (optional)
Analyser	1/1 or 1/3 octave real-time analysis, up to 40.0 kHz band meeting Class 1: IEC 61260-1 FFT analysis 1600 lines, up to 40.0 kHz band (optional) RPM rotation speed measurement parallel to the vibration measurement (optional)
Data Logger	Time-history logging of summary results, spectra with two adjustable logging steps
Time-domain Signal Recording	Continuous or triggered time-domain signal recording to WAV format (optional)
General information	
Input	IEPE with TNC connector
Memory	MicroSD card 32 GB (removable & upgradeable up to 128 GB)
Display	Blanview TFT-LCD 2.4" colour display (320 x 240 pixels)
Communication Interfaces	USB-C, Bluetooth® 5.2, RS 232 (with optional SP 76) External I/O - AC output (1 V Peak) or Digital Input/Output (Trigger – Pulse)
Power Supply	Four AA dry batteries operational time > 12 h ¹ Four rechargeable AA batteries operational time > 16 h ¹ (4.8 V / 2.6 Ah) (not included) External power supply 6 V/500 mA DC ÷ 15 V/250 mA DC USB interface min. 500 mA HUB
Environmental Conditions	Temperature from -10 °C to 50 °C (14 °F to 122 °F) Humidity up to 95 % RH, non-condensed
Dimensions	343 x 79 x 39 mm (with microphone and preamplifier)
Weight	Approx. 0.6 kg with batteries

¹ typical operational time is dependent on the instrument operation mode, and battery type

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.