

SV111 Portable Vibration Calibrator

SV 111 is a multi-frequency vibration calibrator designed for in-situ checks according to ISO 8041. The SV 111 is suitable for calibration checks of various types of vibration meters at different frequencies from 16 Hz up to 640 Hz. Depending on the selected frequency user may select level of calibration from 1 m/s² to 10 m/s². Shaker can be loaded with large weight up to 1 kilogram at 16 Hz.







Multi-frequency calibrator

Calibration at four frequencies

The SV 111 calibrator is suitable for all types of vibration transducers for acceleration, velocity and displacement at 15.92 Hz; 79.6 Hz; 159.2 Hz and 636.6 Hz. Depending on the frequency selected, the user may choose the level of calibration from 1 m/s² to 10 m/s².



Design in accordance to ISO 8041

In-situ checks of seat and hand-arm sensors

The SV 111 portable vibration calibrator is designed for in-situ checks in accordance with the ISO 8041 standard, before and after series of measurements. The device is intended for operation in the field to check that an instrument is working correctly, hence the calibrator is housed in a portable hard-case.



Built-in reference sensor

System detects and signals errors during calibration

In accordance with ISO 8041 requirements the reference accelerometer will measure cross-axes / transverse vibrations to detect any interference to the calibration signal. Three LEDs will light up on the calibrator panel whenever a fault caused by transverse vibrations is detected. This unique feature ensures the stability of the calibration level & frequency independently of the object being tested.



Key Functions



Multi-frequency calibration

The SV 111 calibrator is suitable for all types of vibration transducers for acceleration, velocity, and displacement at 15.92 Hz; 79.6 Hz; 159.2 Hz and 636.6 Hz.



Following the requirements of ISO 8041, the calibrator's built-in triaxial reference accelerometer measures the crossaxis (transverse) vibrations to detect any interference to the calibration signal.



Whole-body vibration

The SV 111 is the perfect solution for calibration checks of whole-body vibration meters and seat accelerometers such as Svantek's SV 100A and SV 38V.



Hand-arm vibration

Following the requirements of ISO 8041, the SV 111 is the perfect solution for calibration checks of hand-arm vibration meters including Svantek's SV 103 and SV 106D.



Simple user interface

The calibrator is simple to use. It has three push-buttons for selection of frequency and amplitude and start/stop control. The OLED graphical screen displays information on the selected frequency and vibration level.



The calibrator has built-in rechargeable batteries that typically allow for 20 hours of continuous operation.



Robust hardware with 3-year warranty

The device is intended for operation in the field to check that an instrument is working correctly, hence the calibrator is housed in a portable hard-case.

Optional accessories



SA 105 Calibration Adapter to SV 105 and SV107 Accelerometers



Calibration Adapter to SV 3233 Accelerometer



SA 155 Calibration Adapter to SV150 and SV 151 Accelerometers





SA 44 Calibration Adapter to SV 50 Accelerometer

Related products



SV 100A Whole-Body Vibration Dosimeter



SVAN 958A Four-Channel Sound and Vibration Analyser



SV 106D Six-Channel Human Vibration Meter



SVAN 974 Single-Channel Vibration Analyser





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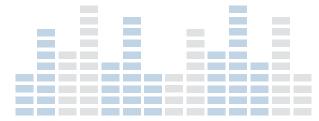


Technical Specifications

(Calibration signal parameters		
	Standards	ISO 8041-1:2017	
	Vibration Accelerations (RMS in m/s²)	1 (at 15.92 Hz) 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 (at 79.58 Hz) 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 (at 159.2 Hz) 1 (at 636.6 Hz)	
	Vibration Velocities (RMS in mm/s)	10 (at 15.92 Hz) 2, 4, 6, 8 10, 12, 14, 16, 18, 20 (at 79.58 H 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 (at 159.2 Hz) 0.25 (at 636.6 Hz)	Hz)
	Vibration Displacement (RMS in µm)	100 (at 15.92 Hz) 4, 8, 12, 16, 20, 24, 28, 32, 36, 40 (at 79.58 Hz) 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 (at 159.2 Hz) 0.0625 (at 636.6 Hz)	
	Amplitude Error	Less than ± 3%	
	Frequency Error	Less than ± 0,5%	
	Transverse Vibration	Less than 10% of the main direction	
	Harmonic Distortion	< 5 % (at 15.92 Hz) < 3 % (at 79.58 Hz) < 3 % (at 159.2 Hz) < 3 % (at 636.6 Hz)	
	General Information		
	Maximum Weight of Calibrated Object	1000 grams (at 15.92 Hz) 300 grams (at 79.58 Hz) 200 grams (at 159.2 Hz) 200 grams (at 636.6 Hz)	
	Power Supply	Rechargeable battery 6 V / 12 Ah Charging Time Power Supply for Charger	operation time up to 20 hours less than 10 hours SA 33 (12V / 1A) or 15W 8 ÷ 24V
	Environmental Conditions	Temperature Humidity	from -10 °C to 50 °C (14 °F to 122 °F) 25 % ÷ 85 % % RH, non-condensed
	Dimensions	395 x 270 x 194 mm	
	Weight	8,2 kg (incl. battery)	

*Sensors shown on photos are not included in the kit.

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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