

SV 111

Vibration Calibrator

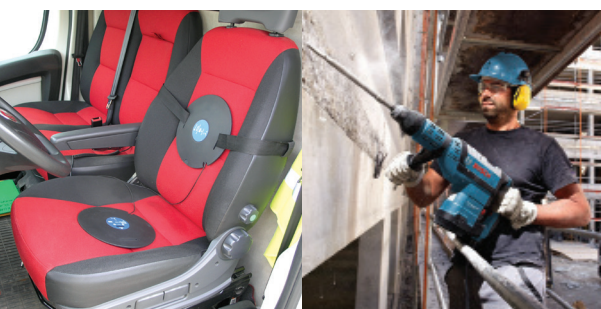
The SV 111 vibration calibrator is the State of the Art instrument designed for human vibration measurements according to ISO 8041. The design of the calibrator is based on the triaxial reference accelerometer and microprocessor controlled shaker. These both features assure excellent stability of the calibration levels and their frequency independently from mass of the testing object, like also indicate improper test object fixing by monitoring of shaker vibration in all three axis simultaneously.

The SV 111 is a multi-frequency calibrator which provides following frequencies 16 Hz, 80 Hz, 160 Hz and 640 Hz. Vibration level is

selectable as well. Shaker can be loaded with large weight which is up to 1 kilogram what together with special adapter provide fast and easy calibration of complete seat accelerometer SV 38 & SV 38V and complete Whole-Body dosimeter SV 100 in all three axes. Other types of vibration transducers can be conveniently attached using mounting stood, mounting disc or dedicated adapter. Robust casing and built-in rechargeable battery accomplish exceptional features of this new generation instrument.

Features

- Low frequency calibration at 15.92 Hz of the HVM instruments meeting ISO 8041
- Easy calibration of all type of vibration transducers for acceleration, velocity and displacement at 79.6 Hz and 159.2 Hz
- Complete seat accelerometer calibration
- Calibration and fault detection
- Display shows: frequency, magnitude and errors
- Beeper indicating stable level and power off
- Automatic power off with timer
- Robust design
- Ready and easy to use in field
- and more...



SV 111

Technical Specification

Generated Vibration Signal (Calibration)

Vibration accelerations (RMS in ms ⁻²).....	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 Hz) 1; 2; 3; 4; 5; 6; 7; 8; 9; 10 (at 159.2 Hz) 0.25 (at 636.6 Hz)
Vibration velocities (RMS in mm/s).....	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 ± 0,05%
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)
Sensor mounting.....	Thread M5 x 12 mm;
Leveling off time.....	Typically 15 ÷ 20 seconds, 60 seconds max

Working Conditions

Temperature range.....	-10 °C ÷ 50 °C
Humidity range.....	25% ÷ 85%

Power Supply

Battery type.....	Rechargeable 6 V/12 Ah
Continuous operating time.....	Up to 20 hours
Automatic switch off.....	From 5 to 60 minutes adjustable
Charging time.....	Less than 10hours
Power supply for charger.....	15 W; 8÷24 V

Overall Weight and Dimensions

Weight.....	.6.5 kg (incl. battery)
Dimensions.....	395 x 270 x 194 mm

Optional Adapters

SA 111.....	seat accelerometer adapter for SV 38, SV 38V, SV 100 (included)
SA 105.....	adapter for SV 105 (option)
SA 38.....	adapter for SV 101 (option)
SA 40.....	adapter for SV 207A, Dytran 3233A, SV 39A, Dytran 3143M1 (option)
SA 44.....	adapter for SV 50, Dytran 3023M2 (option)

Continuous product development and innovation are the policy of our company. Therefore, we reserve the right to change the specifications without prior notice.

Note: accelerometers shown on photos are not the part of SV111 kit!

DISTRIBUTOR:

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