

USER'S MANUAL

For the SVS-2 Vibration Calibrator

General Description

SVS-2 Vibration Calibrator can be used to calibrate small vibration transducers and also vibration measuring instruments and vibration monitoring systems quickly. Standard sine signals with fixed frequency 159.2Hz and fixed amplitude is generated from the calibrator. **SVS-2 Vibration Calibrator** combines sine signal generator, power amplifier, standard transducer and shaker in one and features a smaller volume, high accuracy and easy operation. It can be used either on the test bench or on site.

Specifications

- Accuracy: 5%
- Acceleration Amplitude(RMS): 9.81m/s^2 (1g) $\pm 3\%$
- Velocity Amplitude (RMS): $9.81\text{mm/s} \pm 3\%$
- Displacement Amplitude (RMS): $9.81\mu\text{m} \pm 3\%$
- Vibration Frequency: $159.2\text{Hz} \pm 0.5\%$
- Output waveform: Sine waveform
- Waveform distortion: $\leq 5\%$
- Maximum Load: 120Gram
- Battery: 9V rechargeable, Need 15 hours for fully charge
- Can make the device work for 1.5 hours
- Automatic power off time: 50seconds.
- Working temperature: 0-55 °C
- Size: $\Phi 52 \times 160\text{mm}$
- Weight: 600 gram (with batteries)
- Tapped hole for sensor installation: M5 x 30mm (M5 to ¼-28 unf thread optional)

Operation

1

Attach M5 screw and accelerometer on the shaker table of the calibrator

2

Press the only switch at the calibrator to start the vibration.

3

Compare the reading of your vibration meter before the shaker powers off after 50sec.

4

The LED will turn from GREEN to ORANGE when battery low. It means you need to recharge the battery for 15 hours.



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