

Applications

- Quickly and easy verification of vibrometers
- Verification at the place of measurement (rechargeable battery)
- Verification of whole body vibrometers at 15.915 Hz and 1 m/s²
- Verification of hand-arm vibrometers at 80 Hz and 159.15 Hz and 1 m/s²

Features

- Vibration calibrator according to ANNEX A (Normative) ISO 8041
- Precision, user friendly instrument
- Generates five vibration magnitudes: 1 m/s², 2 m/s², 5 m/s², 10 m/s² and 20 m/s²
- Verification frequencies: 15.915 Hz, 40 Hz, 80 Hz, 159.15 Hz, 320 Hz, 640 Hz and 1280 Hz
- Accelerometers weighting up to 500 g

The **CV211** CESVA multifrequency calibrator for vibration with various vibration magnitudes, is a precision and user-friendly instrument that allows you to verify vibrometers quickly and efficiently.

The **CV211** calibrator for vibration generates a mechanical vibration at a quartz-precision frequency and a very stable signal level. A reference accelerometer inside the shaker head and a control circuit keep the vibration levels constant and independent of the weight of the fixed accelerometer.

The **CV211** allows verifying vibrometers generating five vibration magnitudes: 1 m/s², 2 m/s², 5 m/s², 10 m/s² and 20 m/s² (RMS). And has 7 vibration frequencies: 15.915 Hz, 40 Hz, 80 Hz, 159.15 Hz, 320 Hz, 640 Hz and 1280 Hz (see available combinations in Technical specifications). The vibration calibrator allows accelerometers weighing up to 500g.

The **CV211** vibration calibrator has rubber pads in order to insulate it from vibrations transmitted through the contact surface.

The internal battery of the **CV211** vibration calibrator makes it suitable for verifying vibrometers on the measurement site.

The transport briefcase supplied with the **CV211** allows its easy and comfortable transportation.



Levels and vibration frequencies

Frequency [Hz]	15.915	40	80	159.15	320	640	1280
Acceleration (RMS) [m/s ²]	1	1	1	1	1	1	1
	2	2	2	2	2	2	2
		5	5	5	5	5	5
			10	10	10	10	10
				20	20	20	20

Transverse vibration

15.915 / 40 / 80 / 159.15 / 1280 Hz < 10 %
320 / 640 Hz < 20 %

Settling time

< 10 s

Maximum weight

To 500 g

Harmonic distortion

< 1% (15.915 Hz:< 5%)

Vibration system

Dynamic force 10 N
Maximum torque 2 Nm
Nominal torque 1 Nm
Maximum transversal force 20 Nm

Mounting of test accelerometer

Magnetic clamp
M8 thread (7mm deep), 90° ± 0.5%

Temperature range

3% Accuracy + 10 to + 40 °C
5% Accuracy - 10 to + 55 °C

Humidity range (at 30°C)

< 90 % (no condensation)

Power supply

Built-in accumulator

Running time with one battery charge

5 hours with m = 100g
250 readings of 1 minute

Switch-off timer

10 minutes

Dimensions and weight

Dimensions: 100 x 100 x 120 mm
Weight: 2.2 kg

The characteristics, technical specifications and accessories may vary without prior notice