

#### Applications

- Quickly and easy verification of vibrometers
- Verification at the place of measurement (rechargeable battery)

#### Features

- Precision, user friendly instrument
- Verifying in (10 m/s<sup>2</sup>) acceleration units, (10 mm/s) velocity units or (10 µm) displacement units
- Verification frequency:  $\omega = 1000$  rad/s (f=159.15 Hz)
- Accelerometers weighting up to 500 g

The **CV110** CESVA calibrator for vibration is a precision, user-friendly instrument that allows you to verify vibrometers quickly and efficiently.

The **CV110** 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 level constant and independent of the weight of the fixed accelerometer.

The **CV110** allows calibrating accelerometers with: (m/s<sup>2</sup>) acceleration units, (mm/s) velocity units and (µm) displacement units with nominal values of: 10 m/s<sup>2</sup>, 10 mm/s and 10 µm. The frequency of vibration is  $\omega = 1000$  rad/s (f=159.15 Hz). The vibration calibrator allows accelerometers weighing up to 500g.

The **CV110** vibration calibrator has rubber pads in order to insulate it from vibrations transmitted through the contact surface.

The internal battery of the **CV110** vibration calibrator makes it suitable for verifying accelerometers on the measurement site.

The transport briefcase supplied with the **CV110** allows its easy and comfortable transportation.



#### Vibration level

Acceleration:	10 m/s <sup>2</sup>	± 3%
Velocity:	10 mm/s	± 3%
Displacement:	10 µm	± 3%

#### Vibration frequency

Frequency:	159.15 Hz
Angular velocity:	1000 rad/s

#### Settling time

< 10 s

#### Maximum weight

500 g

#### Harmonic distortion

< 1 %

#### 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  
M5 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

#### Switch-off timer

10 minutes

#### Dimensions and weight

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

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