

#### 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

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