

CB011 - CB012 Acoustic calibrator

TECHNICAL SPECIFICATIONS

D_CB0011_CB012_v0002_20211007_EN

Correct verification of sound level meters and dosimeters is essential before and after each series of measurements. The *CB011* (class 1) and *CB012* (class 2) acoustic calibrators provide maximum reliability when performing these verifications.

The *CB011* and *CB012* are managed with just one button. When pressed, it generates a sound pressure level of 94 dB and uses 1 kHz as the verification frequency, this means that there is no need of corrections due to frequency weightings.

Both calibrators are portable and very easy to use, which makes them useful for the verification of sound level meters (class 1 and class 2) and dosimeters at the point of measurement and in the laboratory. They can be used with any microphone capable of being verified in a closed cavity and with a diameter of 1/2". They have two LEDs (ON and 94 dB), both visible throughout the verification process, which keep the user informed of the level stability and also the state of the batteries.

The operation of the *CB011* and *CB012* is based on a feedback loop system. In this way, the level generated is independent of the environmental conditions in which the equipment is located.

In addition, these calibrators have a protection system that prevents the equipment from being turned on involuntarily, both after use and due to accidental power on.

APPLICATIONS

Equipment checking:

- Class 1 and class 2 1/2" microphone
- With any type of frequency weighting
- In the field or laboratory

CHARACTERISTICS

- Acoustic calibrator class 1 (CB011) and class 2 (CB012) according to IEC 60942:2017
- Feedback loop design.
- Great level (94 dB) and frequency (1 kHz) stability with led indicator.
- Independent of environmental conditions: atmospheric pressure, temperature and humidity.
- Automatic power off with microphone presence detection and continuous operation option.
- Ergonomic anti-roll design
- Type approval number 192315001 (CB011) and 192315002 (CB012) according to ICT/155/2020



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TECHNICAL SPECIFICATIONS

FREQUENCY

Main frequency: 1 kHz \pm 1%

SOUND PRESSURE LEVEL

Main sound pressure level: 94 dB re 20 μ Pa

DISTORTION

Distortion: < 2,5 %

ENVIRONMENTAL CONDITIONS_(operating)

Relative humidity: 25 to 90 %
Static pressure: 65 to 108 kPa
Temperature: -10 °C to +50 °C CB011
0 °C to +40 °C CB012

CAVITY DIAMETER

Cavity diameter: ½ inch

BATTERIES

Batteries: 2 1,5 V Alkaline batteries AAA (LR3)

LED INDICATORS

LED:

| | | |
|-------|----------------|--------------------------------|
| ON | FIXED (100%) | Calibrator on |
| | BLINKING (90%) | Calibrator permanently on |
| | BLINKING (50%) | Low voltage batteries |
| 94 dB | FIXED (100%) | Correct sound pressure level |
| | BLINKING (50%) | Incorrect sound pressure level |

DIMENSIONS AND WEIGHT

DIMENSIONS

Diameter: 50 mm
Length: 112 mm

WEIGHT: 127 g

CERTIFICATIONS AND STANDARDS

- CB011 IEC 60942:2017 and EN IEC 60942:2018, Class 1
- CB012 IEC 60942:2017 and EN IEC 60942:2018, Class 2
- **CE** Marking. Complies with 2014/35/UE and EMC 2014/30/UE low tension regulation.
- Pattern approval certificate for Spain.



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