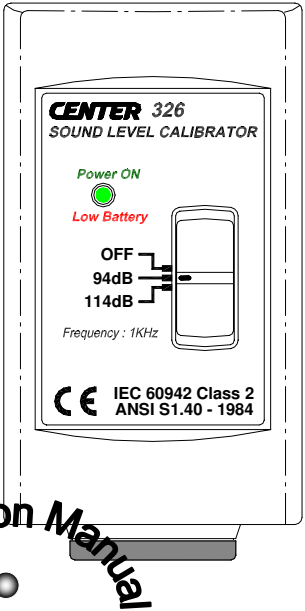
# CENTER® 326

# Sound Level Calibrator




## Instruction Manual

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PACIFIC SENSOR TECHNOLOGIES
MEASURING THE WORLD AND BEYOND

# Instruction Manual

## Sound Level Calibrator

CE

326-00 OCT. 2003

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# 1. Safety Information

Read the following safety information carefully before attempting to operate or service the meter. Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

**Environment Conditions**

- Altitude up to 2000 meters
- Relative humidity 90% max.
- Operation Ambient 0 to 40

## 3. Features

Conforms to ANSI S1.4-1984 and IEC 60942-2003 Class 2.
Calibration levels of 94dB and 114dB.
Fit 1 inch and 1/2 inch diameter microphone.

## 4. Specifications

**Output sound pressure levels:**
94dB and 114dB re 20 uPa under reference conditions.

**Output frequency:** 1000Hz +/- 2%

**Reference conditions:**
Temperature :23

Calibrator will not be operated when green LED turns to red LED, which means that battery voltage falls bellow acceptable range.

**Dimensions:**

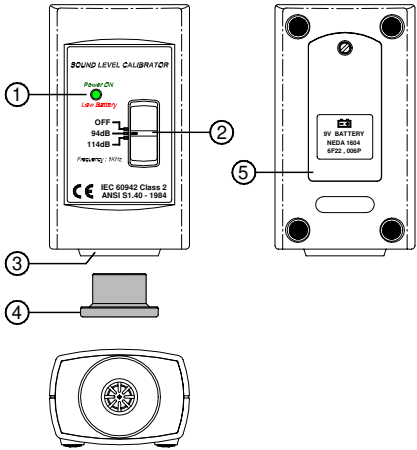
113(L)x63(W)x44(H)mm,4.4(L)x2.4(W)x1.7(H)inch

**Weight:** approx. 170g(including battery)

**Ambient conditions:**

0 – 40

# 5. Nomenclature And Functions




① Power and low battery indicate LED.
② Power and output level select switch.
③ Transducer assembly 1-inch cavity for microphone insertion.
④ 1/2-inch microphone adapter.
⑤ Battery cover.

## 6. Operating Preparation

(1) Remove battery cover and install a 9V Battery in the battery compartment.

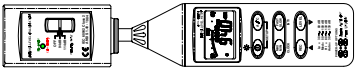
(2)To quickly check the operation of the sound level calibrator.

Before using it, proceed as follows:

(a)Turn the power switch from OFF to the 94dB position. The user can start to operate it when LED indicates the green light. If no, please replace the battery.

(b)Change the switch from 94dB to 114dB, the 20dB increase in level. You can calibrate in noisy environments and check linearity.

## 7. Calibration Procedure



(1)The cavity of the calibrator will accommodate 1-inch microphone.

(2)When the calibration is performed to a instrument with 1/2-inch microphone, the 1/2-inch microphone adaptor will have to be inserted by gently pushing it into the cavity till the end.

(3)Place the sound level calibrator over the microphone of the sound measuring instrument being calibrated.

(4)On the instrument under test, set the level range control to the range having 100dB as its upper limit if 94dB was selected on the sound level calibrator. If 114dB was selected on the sound level calibrator, choose a range with on upper limit of 120dB. The instrument may be set to FAST or SLOW response and C or A weighting.

(5)Read the level on the instrument under test and adjust the sensitivity control for the correct indication of the sound level calibrator level selected in step.

(6)When the calibrator is not worked, please switch OFF the power to save the battery.

**CAUTION!**

Ambient sources of noise or vibration can cause a false calibration indication, this can be especially signification at the lower 84dB level.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