

CTL 100



Automatic check of sound level meter

Kimo CTL 100 Automatic Sound Level Meter Check

Principle of automatic check

Initial check

To be carried out at the delivery, when instrument is new and calibrated (laboratory or manufacturer) or after periodic calibration procedure, or after repair.

Frequent check

To be carried out **BEFORE** :

- each measurement dataset

To be carried out **AFTER** :

- an impact applied on the instrument,
- storage in extreme environment (high temperature, wet environment etc...)
- a long period of storage

Working principle

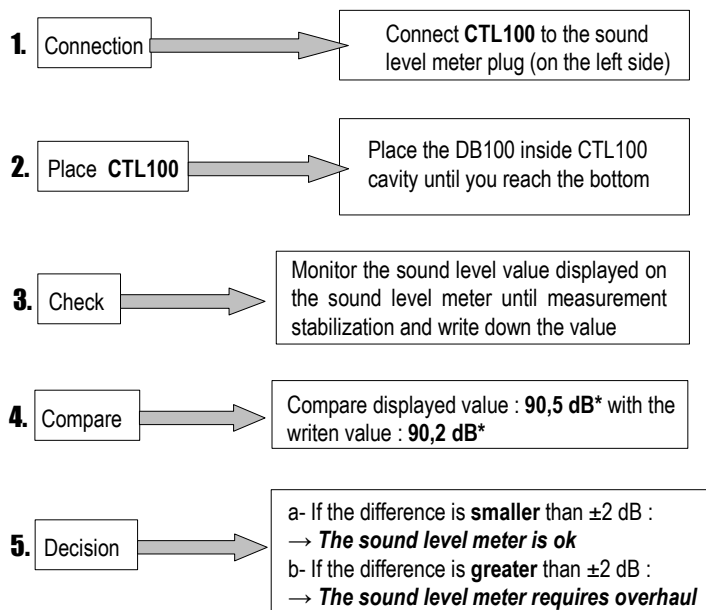
CTL100 gives a stable acoustic signal **90 dB at 1000Hz**, automatically delivered once plugged to the sonometer. The user shall write down the **LA value**, fast (F) or slow (S) displayed on the sound level meter.

The sound level meter value and the CTL100 reference value must not exceed **90 dB ± 2dB** difference.

In case of greater difference, the sound level meter shall be returned to Customer Service Department.

Note : The sound level meter can not be calibrated with the CTL100. An acoustic calibrator must be used to calibrate sound level meters or the instrument can be sent to specialized laboratories or Customer Service Department. CTL100 works only for DB100.

Operating procedure :



*example



*Sound level meter supplied separately

Presentation

The automatic check consists in comparing sound level meter value with level produced by CTL100. The principle allows to periodically check sound level meter performance, especially the microphone performance which is the sensing element of the instrument.

CTL100 can not replace an acoustic calibrator which must be used for sound level meter calibration.

Technical features

- Emission**
 Frequency.....1000 Hz ± 5%
 Level.....90 dB ± 1dB
 Stability.....< 0.5 dB
- Automatic power supply**
 When being connected to the sound level meter
- Environment**
 Operating temperature.....from +5 °C to + 40 °C
 Pressure.....1013 hPa ± 10%
 Storage relative humidity..... 80 % RH max.
 CE labelling.....As per 89/336/CEE guideline
- Dimensions**
 Dimensions (Without cable).....140 x 28 x 25 mm
 Weight.....50 g

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