

User Manual

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level

Sound level meter **DB 100**





Technical features

Microphone

Microphone.....prepolarised electret condenser.

Nominal sensitivity.....20 mV/Pa .

Sound level meter

• Environmental effects

Reference frequency......1000 Hz

Power supply

Ouput



DO NOT PLUG USB cable. The output **is not USB** compatible, the plug is maintenance- and optional accessory-specific.



*Livré avec écran anti-vent

Description

DB 100 sound level meter is reliable, easy to use and in accordance with metrology requirements. DB100 can measure:

- Sound-pressure level
- Time averaged or equivalent continuous sound pressure level

• Sound-pressure level L_A

as per two weighting times FAST or SLOW

To be used for stable or slightly fluctuating sound sources. Sound-pressure level ($L_{\rm A}$) unit is **dBA** and $L_{\rm Amin}$ and $L_{\rm Amin}$ values are saved.

Time averaged sound level L_{Aeq}

To be used for **fluctuating** sound sources.

Time averaged sound level (**L**_{Aeq}) unit is **dBA** with a programmable integration time **linestanties Grab**. H

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Automatic check of sound level meter

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

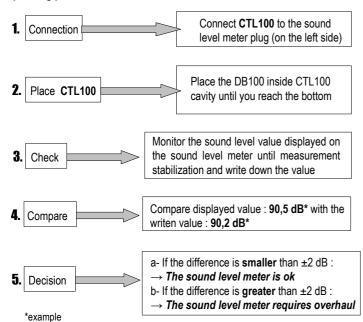
CTL100 gives a stable acoustic signal 90 dB at 1000Hz, automatically delivered once plugged to the sonometer. The user shall write down the LA value, fast (F) or slow (S) displayed on the sound level meter.

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

Operating procedure:





*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	
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

Distributed by:

Dimensions (Without cable)	140 x 28 x 25 mm
Weight	50 g

www.kimo.fr

EXPORT DEPARTMENT

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Tang – DB100-CTL100 – 04/08 B – We reserve the right to modify the characteristics of our products without notice.