KIMO INSTRUMENTS

User Manual

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

Sound level meter

DB 100

CE

*Livré avec écran anti-vent

Technical features

- ***Microphone***

Microphone.....prepolarised electret condenser.
Nominal sensitivity.....20 mV/Pa .

- ***Sound level meter***

Standards.....IEC 61672-1 Class 2 /
IEC 60651 Class 2 / IEC 60804 Class 2
Measured parameters.....L_A and L_{Aeq}
Other displayed parameters.....L_{AFmax}, L_{AFmin}, L_{ASmax} , L_{ASmin}
Frequency weighting.....A
Measuring range.....30-130 dB
Time weighting.....slow, fast
Data integration time for L_{Aeq}.....from 1s to 15 min
Overload indicator.....detected at the peak sound-pressure level
Backlighted display.....graphic 128x64 pixels.
Adjustable contrast.
Resolution.....0,1 dB
Reference direction.....microphone axis
Reference range.....30 - 130 dB
Reference level.....94 dB
Reference frequency.....1000 Hz

- ***Environmental effects***

Storage relative humidity..... 95 % RH max.
Storage temperature.....from 0 °C to + 50 °C.
Operating temperature.....from -10 °C to + 50 °C.
Humidity dependence.....in accordance with standard between 30 and 90%RH, reference being at 65%HR and 40°C.
Static pressure dependence.....According to class 2 requirements
Standards.....IEC 61672-1 / IEC 61651 / IEC 60804
Electromagnetical compatibility.....As per 89/336/CEE guideline

- ***Power supply***

Batteries.....3 AAA or rechargeable batteries
(Rq: rechargeable batteries must not be recharged inside the instrument)
Battery life (at 20°C).....30 hours min (with alkaline batteries)

- ***Ouput***

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

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_A) unit is **dBA** and L_{Amax} and L_{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 in minutes and seconds.