

**Sound level meter**  
**DB 100**



\*Supplied with wind screen

**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 60651 / 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)

• **Output**

 **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  $L_{Aeq}$**

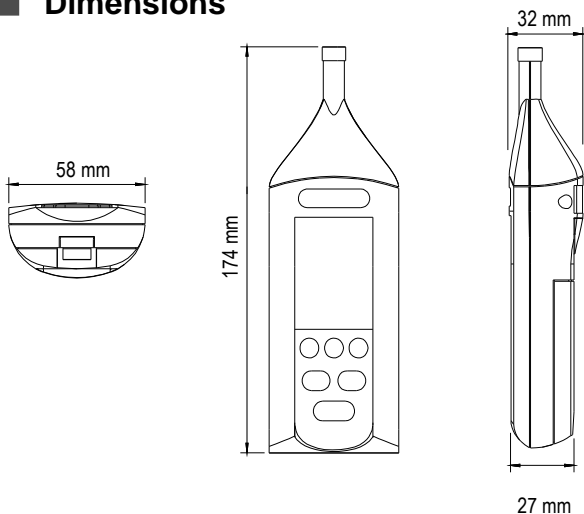
To be used for **fluctuating** sound sources. Time averaged sound level ( $L_{Aeq}$ ) unit is **dBA** with a programmable integration time in minutes and seconds.

## Quick start

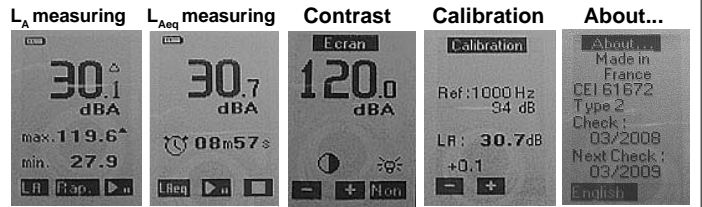


- ① ② ③ **Function keys** (See table)
- ④ **Erase and back to previous screen**
- ⑤ **Screen key** (See table)
- ⑥ **On/Off key**

## Dimensions



## Screens



« ^ » symbol indicates the detection of input overload, while « ^ » appears measures must not be taken in account.

### FUNCTIONS (Once instrument is switched on)

- L<sub>A</sub> measurement**
- 1x ② → Slow time weighting
  - 2x ② → Fast time weighting

- L<sub>Amax</sub> and L<sub>Amin</sub> reset**
- From L<sub>A</sub> measuring screen → 1x ④

- L<sub>Aeq</sub> measurement**
- From L<sub>A</sub> measuring screen → 1x ① → Go to L<sub>Aeq</sub> measuring screen
  - 1x ② → Start
  - 1x ③ → Stop
  - 2x ③ → Reset

- L<sub>A</sub> : Hold function**  
(During measurement)
- 1x ③ → Hold
  - 2x ③ → Re-start

- L<sub>Aeq</sub> : Hold function**  
(During measurement)
- 1x ② → Start
  - 2x ② → Stop
  - 3x ② → Re-start

- Contrast settings**
- 1x ⑤ → 1x ① → Decrease
  - 1x ② → Increase

- Backlight**
- 1x ⑤ → 1x ③ → Active
  - 2x ③ → Deactive

- Calibration**
- 2x ⑤ → 1x ① → Calibration value decrease of 0.1dB
  - 1x ② → Calibration value increase of 0.1dB

- Language**
- 3x ⑤ → 1x ① → English
  - 2x ① → French

## Accessories (optional)

### • CTL 100 Acoustic controller

The acoustic controller allows DB100 functional check with a reference of 90 dB at 1000 Hz.

### • CAL200 Acoustic calibrator

The acoustic calibrator allows the checking and calibration of the DB 100 sound level meter with a reference of 94 dB at 1000 Hz

### • Wind screen

To protect the microphone against wind and dust.

[www.kimo.fr](http://www.kimo.fr)

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