

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%RH 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}**

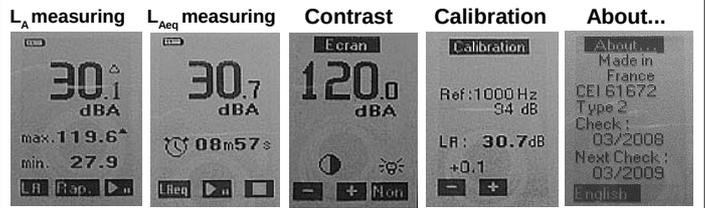
To be used for **fluctuating** sound sources. Time averaged sound level (L_{Aeq}) unit is **dBA** with a programmable integration time in minutes and seconds.

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**

Screens



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

FUNCTIONS (Once instrument is switched on)

- L_A measurement**
- 1x ② → Slow time weighting
 - 2x ② → Fast time weighting

- L_{Amax} and L_{Amin} reset**
- From L_A measuring screen → 1x ④

- L_{Aeq} measurement**
- From L_A measuring screen → 1x ① → Go to L_{Aeq} measuring screen
 - 1x ② → Start
 - 1x ③ → Stop
 - 2x ③ → Reset

- L_A : Hold function**
(During measurement)
- 1x ③ → Hold
 - 2x ③ → Re-start

- L_{Aeq} : Hold function**
(During measurement)
- 1x ② → Start
 - 2x ② → Stop
 - 3x ② → Re-start

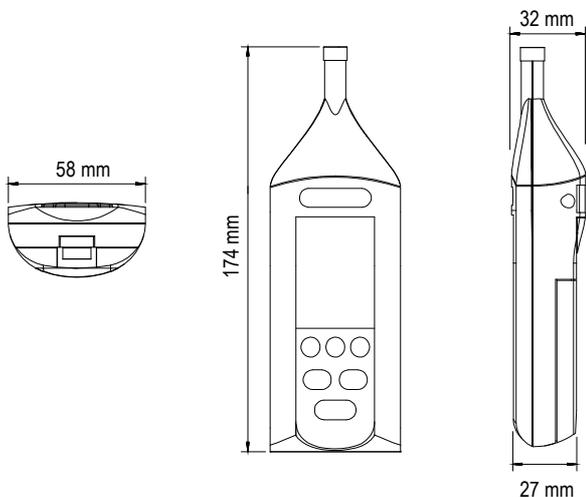
- Contrast settings**
- 1x ⑤ → 1x ① → Decrease
 - 1x ② → Increase

- 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

DIMENSIONS



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.

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