Sound level meter
DB 100

CE

*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)

● *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**.**
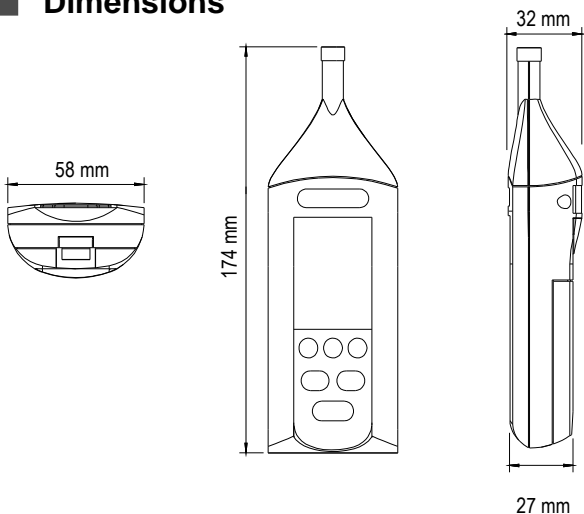
● *Time averaged sound level L_{Aeq}*

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.
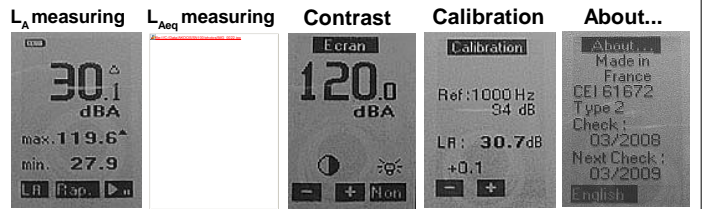
Quick start

Screens

L_A measuring	L_{Aeq} measuring	Contrast	Calibration	About...

L_A measuring: 30.1 dBA, max.119.6^, min. 27.9, LA Rap. ▶ll

Contrast: Ecran, 120.0 dBA

Calibration: Calibration, Ref:1000Hz 94 dB, LA: 30.7dB, +0.1

About...: About..., Made in France, CEI 61672, Type 2, Check : 03/2008, Next Check : 03/2009, English

« ^ » 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

① ② ③ **Function** keys (See table)

④ **Erase** and **back to previous screen**

⑤ **Screen** key (See table)

⑥ **On/Off** key

Dimensions

32 mm

58 mm

174 mm

27 mm

Accessories *(optional)*

- *Acoustic controller*

  The acoustic controller allows DB100 functional check with a reference of 94 dB at 1000 Hz.

- *Wind screen*

  To protect the microphone against wind and dust.

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