

DB 200 Sound level meter

Integrating-averaging with storage function



FIVE DIFFERENT MEASUREMENT MODES

- **Mode 1:** Conventional sound level meter
- **Mode 2:** Conventional sound level meter with storage.
- **Mode 3:** Conventional and integrating-averaging sound level meter
- **Mode 4:** Integrating-averaging sound level meter with storage.
- **Mode 5:** Sound level meter "calculator" of two sound sources.

MEASURED VALUES

- Weighted sound level: **L**
- Equivalent continuous level: **Leq**
- Sound exposure level: **LE**
- Peak pressure level: **Lpk**

RESULTS & ADDITIONAL INFORMATION

- Maximum and minimum values, peak values
- **L01-L10-L50-L90** statistics distribution of measured values.
- Presence and percentage of overload input stages, measurement time.
- Residual autonomy of batteries or battery, measuring capacity remaining.

DATA DISPLAY

The DB200 sound level meter is supplied with LDB200 software for display data and measurement report printing.



I/O INTERFACE

Launching and stopping of the measurement by external control.
Detection of sensitive levels for alarms activation
Analogue output 0-10V DC.

STANDARDS AND DIRECTIVES

As per following standards:
Sound level meter: NF EN 61672-1 (2003)- NF EN 60651 (1994) – NF EN 60804 (2000).
European directives: 2014/30/EU ECM; 2014/35/EU Low tension; 2011/65/EU RoHS II; 2012/19/EU DEEE

TECHNICAL FEATURES

Metrology

Accuracy.....	Class 2	Logging time for short Leq (DI).....	from 1 s to 60 s
Microphone type.....	Electret ICP – ½" - Sensibility : 15 mV/Pa	Sampling for Lp.....	from 1 s to 60 s
Measuring type.....	Free-field	Measured values.....	LXY – LXYmax – LXYmin - LXeq,T – LXeq,DI – LXE – LXeq,DImax – LXeq,DImin
Measurement dynamic.....	Lp/Leq : 100 dB - Lpk : 50 dB	Statistics indices LXN on Lp and Leq samples.....	LX01 – LX10 – LX50 – LX90 – LX95 – resolution 1dB.
A-weighted measurement range.....	30-130 dB	Measured values simultaneously -	
C-weighted measurement range.....	35-130 dB	Storage mode.....	All according LXY or LXeq choice
Z-weighted measurement range.....	35-130 dB	Detection and	
Peak channel measurement range.....	83-133 dB	percentage of overload.....	Alarm graphics and calculation of percentage during the storage
X frequency weighting	A – C – Z		
Y frequency weighting.....	F (fast) – S (slow) I (impulse) – Peak (pk)		

SOUND LEVEL METER

Screen.....	graphic display 240 x 160 pixels – LCD monochrome 16 levels – digital and analogue display – 3D effect on display
Keypad.....	8 sensitive keys
Internal clock.....	permanent, saved by internal battery
Memory module.....	integrated Micro SD card type – data transfer by USB cable
Environment.....	from 0°C to +50°C
Humidity.....	from 0 to 90% RH
Dimensions (L x l x e).....	270 x 70 x 40 mm
Weight (including batteries).....	280 gr
Fixing.....	Insert at rear for fixing on tripod

OPERATING

5 measurement modes.....	conventional – conventional with storage – conventional and integrating – integrating with storage – calculator S1 + S2
Storage and measurement capacity.....	L-Leq mode: 24h L-St or Leq-St mode : according sampling or elementary logging time Memory capacity: 25 periods of 86 500 values – ex: 24 hours / Leq 1s
I/O Interface :	Output 0-10V DC: 0-130dB Start/Stop measurement order: TTL level maximal 5V Output for alarm activation: TTL level 3.3 V
Measurement launching.....	By keyboard or I/O controlled
Power – Autonomy.....	Batteries: 3 x LR6/AA – minimum autonomy: 15 hours at 20°C Optional rechargeable Li-Ion battery: minimum autonomy :more than 24 h at 20°C Electrical power adapter 5V, USB format.
Guarantee.....	2 years

SUPPLIED WITH

- Windshield
- Transport case
- 3 LR6-AA batteries
- Calibration certificate
- Transfer cable USB type
- LDB200 software

ACCESSORIES

- Tripod
- Acoustic calibrator class 2
- Rechargeable Li-Ion battery
- Charger – electrical power adapter USB type
- Jack cables for I/O interface



Acoustic
calibrator

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