



Technical Data Sheet

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

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

- | | |
|---|--|
| <ul style="list-style-type: none"> - Weighted sound level: L - Equivalent continuous level: Leq | <ul style="list-style-type: none"> - 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/UE DEEE

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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 LXX 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 percentage of overload	Alarm graphics and calculation of percentage during the storage
Peak channel measurement range	83-133 dB		
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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