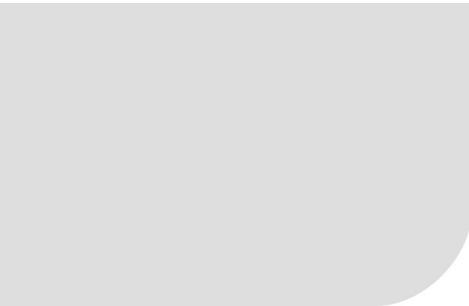


## DB 200 Sound level meter



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"> <li>- Weighted sound level: L</li> <li>- Equivalent continuous level: Leq</li> </ul> | <ul style="list-style-type: none"> <li>- Sound exposure level: LE</li> <li>- Peak pressure level: Lpk</li> </ul> |
|---|--|

### 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

## TECHNICAL FEATURES

### Metrology

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

### SOUND LEVEL METER

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

### OPERATING

<b>5 measurement modes</b> .....	conventional – conventional with storage – conventional and integrating – integrating with storage – calculator S1 + S2
<b>Storage and measurement capacity</b> .....	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
<b>I/O Interface</b> :	Output 0-10V DC: 0-130dB Start/Stop measurement order: TTL level maximal 5V Output for alarm activation: TTL level 3.3 V
<b>Measurement launching</b> .....	By keyboard or I/O controlled
<b>Power – Autonomy</b> .....	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.
<b>Guarantee</b> .....	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

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Acoustic  
calibrator