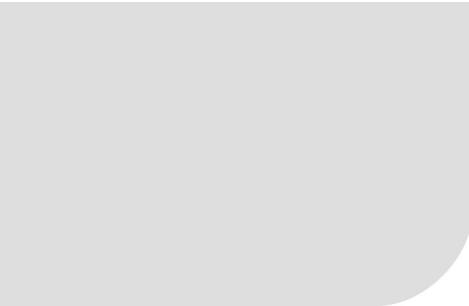




## DB 200 Sound level meter

CE

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 :  $L_{eq}$
- Sound exposure level : LE
- Peak pressure level :  $L_{pk}$

### 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

As per following standards :  
**Sound level meter** : NF EN 61672-1 (2003)- NF EN 60651 (1994) – NF EN 60804 (2000).  
**CE conformity** : EN 61010 – EN 61000 generic and as per product standards.

## 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 LZN 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 - Storage mode</b>	.....All according LXY or LXeq choice
<b>C-weighted measurement range</b>	.....35-130 dB	<b>Detection and percentage of overload</b>	.....Alarm graphics and calculation of percentage during the storage
<b>Z-weighted measurement range</b>	.....35-130 dB		
<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 -10 °C to +50 °C
<b>Humidity</b>	.....from 0 to 90% HR
<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

