

DB 300/1

Sound level meter

Integrating-averaging with storage function



Class 1

DB300/1 sound level meter respects the most recent international standards and brings to the user a high comfort in use.

From the simple sound level measurement to the frequency analysis in real time, DB300/1 covers the most applications in the finding of solutions to get better the noise environment

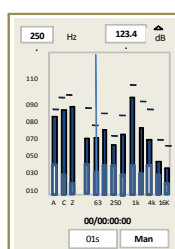
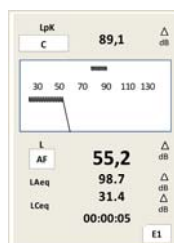
DB300/1 stores the measurement datasets that can be then transferred in a computer with the LDB23 software.

CE

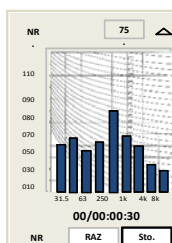


Main measured values

- The weighted noise level : **L_{XY}**
- The equivalent continuous level : **L_{Xeq}**
- The peak pressure level : **L_{upk}**
- The noise exposure level : **L_{XE}**



- Real time analyser by octave bands – 16 Hz to 16 kHz



- Values and graphic representation of the NR comfort criteria

I/O Interface

- Detection of sensitive levels for alarm activation
- Analogue output DC : 0-10V/0 -137dB

Other information

- Minimum and maximum values, peak values
- Statistical distribution of the measured values : L01-L10-L50-L90-L95

Business application

- Environment
- Monitoring and emergencies
- Industry
- Noise spectrum 1/1 octave
- Noise of machines and NR evaluation curves
- Process monitoring, conformity check
- Noise to workstation

Data visualization

DB300/1 is supplied with the LDB23 software for display data and measurement report printing.



TECHNICAL FEATURES

Standards

Sound level meter : NF EN 61672-1 (2002)- NF EN 60651 (1979) – NF EN 60804 (2000) – CEI 61260
CE conformity : EN 61010 – EN 61000 generic and as per product standard

Metrology

Accuracy : Class 1 - NF EN 61672-1
Microphone type : Electret – ½" - Sensibility : 45 mV/Pa
Measuring type : Free-field
Measurement dynamic : Lp / Leq : 117 dB - Lpk : 54 dB
Single dynamic range Lp and Leq / Lpk : 20-137 dBA
25-137 dBC (Z) / 83-137 dBC (Z)
X frequency weighting : A – C – Z
Multi-spectrum frequency analysis : filters by octave bands – 16 Hz // 16 kHz
Y frequency weighting : F (fast) – S (slow) – I (impulse) – U : Peak
Logging time for short Leq (DI) : 1/16s - 1/8s - 1/4s - 1/2s - 1s to 60 s (1s step)

Measured values : LXY – LXYmax – LXYmin - LXeq,T – LXeq,DI – LXE – LXeq,Dlmax – LXeq,Dlmin
Statistic indices LAN LAeq samples : L01 – L10 – L50 – L90 – L95 – 1 dB resolution.
Measured values simultaneously : All according to LXY conventional mode or LXeq integrator mode
Detection and percentage of overload : Alarm graphics and calculation of percentage during the storage

Sound level meter

Preamplifier	removable – extension of 3-5-10 m – on request
Screen	graphical display 240 x 160 pixels – LCD monochrome 16 levels – digital and analog display – 3D effect on display
Keypad	8 sensitive keys
Clock	permanent, saved by internal battery – accuracy better than 0.01%
Memory module	removable Micro SD card 2Go
Environment	from -10 °C to +50 °C
Humidity	from 0 to 90% HR
Size (L x l x e)	270 x 70 x 40 mm
Weight (with batteries)	355 gr
Fixing	Insert at rear for fixing on tripod

Operating

Measurement modes	conventional and start/stop integrating – integrating analyser with storage – NR comfort criteria - S1 + S2 calculator
Storage and measurement capacity	Lp-Leq start/stop mode : unlimited Leq-St mode : according to elementary logging time (from 1/16e s to 60s) Memory capacity with frequency analysis by full octave band : - Base Leq 1s : 135 days to share from 1 to 99 periods. - Base Leq 1/16°s : 8 days to share from 1 to 99 periods.
Interface I/O	Output DC : 0-10V / 0-137dB Output for alarm activation : TTL level 3.3 V
Measurement launching	By keyboard
Power – Autonomy	Li-Ion battery : minimum autonomy : more than 24 h at 20 °C
Guarantee	2 years

Supplied with

- Li-Ion battery – 3 x AA batteries coupling device - windscreen
- Transport case
- USB type charger - Adapter
- Calibration certificate
- USB type transfer cable
- User manual
- LDB200 software

Optional accessories

- Extensions for preamplifier : 3-5-10 m
- Tripod
- Acoustic calibrator class 1 (NF EN 60942:2003) type : CAL300
- Jack cables for I/O interface



Acoustic calibrator

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