

DB 300/2 Sound level meter



Integrating-averaging with storage function



Class 2



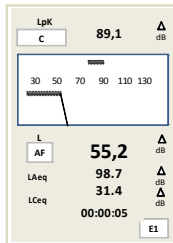
The **DB300/2** sound level meter extends the range of classical and integrator sound level meters.

It respects the most recent international standards and brings to the user a high comfort in use.

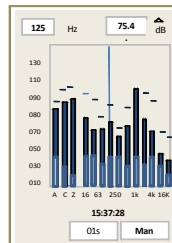
From the simple sound level measurement to the frequency analysis in real time, **DB300/2** covers the most applications in the finding of solutions to get better the noise environment

DB300/2 stores the measurement datasets that can be then transferred in a computer with the LDB23 software.

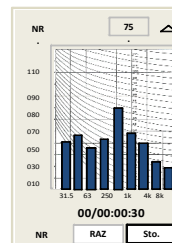
MAIN MEASURED VALUES



- Weighted noise level: **LXY**
- Equivalent continuous level: **LXeq**
- Peak pressure level: **LUpk**
- Noise exposure level: **LXE**



Real time analyser by octave bands – 31.5 Hz to 8 kHz



Values and graphic representation of the **NR** comfort criteria

I/O INTERFACE

- Detection of sensitive levels for alarm activation
- DC analogue output: 0-10 V: 0 -137 dB
- Ordered measurement start

AUDIO RECORDINGS ON THRESHOLD

- Audio recording of audio files on detection of LXeq or LUpk levels

BUSINESS APPLICATION

- Environment
- Monitoring and emergencies
- Industry
- Noise spectrum 1/1 octave – optional: 1/3 octave
- Noise of machines and NR evaluation curves
- Process monitoring, conformity check
- Noise at workstation

OTHER INFORMATION

- Maximum and minimum values, peak values
- Statistical distribution of the measured values: **L01 – L10 – L50 – L90 – L95**

DATA VISUALIZATION

DB300/2 is supplied with the **LDB23** software allowing data visualization and measurement report printing.



TECHNICAL FEATURES

• Standards

Sound level meter: NF EN 61672-1 (2003) – NF EN 60651 (1979) – NF EN 60804 (2000) – CEI 61260

European directives: 2014/30/EU ECM; 2014/35/EU Low tension; 2011/65/EU RoHS II; 2012/19/EU WEEE

• Metrology

Accuracy: Class 2 - NF EN 61672-1

Microphone type: Electret – ½" - Sensibility : 45 mV/Pa

Measuring type: Free field

Measurement dynamic: Lp / Leq : 107 dB - Lpk : 57 dB

Single dynamic range Lp and Leq / Lpk: 30-137 dBA / 35-137 dBC (Z) / 83-140 dBC (Z) – **Leq:** 25-137dB (filters by octave bands 31.5 Hz-8 kHz)

X frequency weightings: A – C – Z

Multi-spectrum frequency analysis: Real time filters by octave bands : 31.5 Hz // 8 kHz – 1/3 octave optional bands : 25 Hz // 10 kHz

Y frequency weightings: F (fast) – S (slow) – I (impulse) – U (peak)

• Sound level meter

Preamplifier	Removable – extensions of 3 – 5 – 10 m on request
Screen	Graphical display 240 x 160 pixels – LCD monochrome 16 levels – digital and analogue display – 3D effect on display
Keypad	8 sensitive keys
Clock	Permanent, saved by internal battery – accuracy better than 0.005%
Memory module	Removable Micro SD card 2Go
Environment	From 0°C to +50°C
Humidity	From 0 to 90% RH
Size (L x l x e)	270 x 70 x 40 mm
Weight (batteries included)	355 gr
Fixing	Insert at rear for fixing on tripod

• Operating

Measurement modes: conventional and start/stop integrator – integrating analyser with storage – NR comfort criteria – S1 + S2 calculator

Storage and measurement capacity:

- Lp-Leq start/stop mode: unlimited

- Leq with storage mode: according to the elementary logging time (from 1/16e s to 60s)

- Memory capacity with frequency analysis by full octave bands :

• Base Leq 1 s: 135 days to share from 1 to 999 periods.

• Base Leq 1/16° s: 8 days to share from 1 to 999 periods.

Audi recordings on threshold

Recording on detection of LXeq or LCpk programmable levels –

Sampling: 12 kHz – 16 bits: total duration of recording: 45 mn – file format: *.wav

SUPPLIED WITH

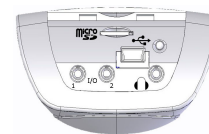
- Li-Ion battery – 3 x AA batteries coupling device – Windscreen
- Transport case
- USB charger - adapter
- Calibration certificate
- USB transfer cable
- User manual
- LDB23 software

I/O interface:

DC output: 0-10 V / 0-137 dB

Output for alarm activation: TTL level 3.3 V

Measurement start by electrical order: 0-5 V DC max



Measurement launching

By keypad or I/O mode

Power supply – Autonomy

Rechargeable Li-Ion battery: minimum autonomy: 24 hours at 20°C – 3 AA alkaline batteries can be also used (the autonomy is reduced) – mains adapter.

Guarantee: 2 years

OPTIONAL ACCESSORIES

- Extensions for preamplifier: 3 or 10 m
- Tripod
- Acoustic calibrator class 1 (NF EN 60942:2003) type : **CAL300**
- Jack cables for I/O interface
- **LDB300:** specific software for the industry, environment for elaborated data processing



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