

DS 200 DOSIMETER

Individual noise dosimeter



PRESENTATION

Combined with data software LDS300, **DS200** instrument allows to determine of sound exposure level on workstation in compliance with Statutory Instrument and effective standards : 2003/10/CE Directive, NF S 31-084 and ISO 9612:2009 standards.

SPECIFICATIONS

- **Hand conventional sound level meter mode**
- **Optimal ergonomic use**
6 keys keypad for intuitive operation coupled with a 128*64 pixels graphical LCD backlighted screen .
Easy and autonomous preparation for calibration and measurement that does not require any computer
- **Locking of the display**, keypad and instrument stop
- **Visual alarm for help wearing individual protection**
- **Microphone fixing kit of allowing a diminution of measurement uncertainty**

MAIN METROLOGICAL FEATURES

- **Noise pressure level** : LAF – LAS – max-min
- **Equivalent continuous level** : LAeq – LReq – max – min
- **Peak pressure level** : LCpk – LZpk
- **Detection and peak counting** : 135dB – 137dB – 140dB
- **Daily noise exposure level** : Lex,d
- **Noise exposure** : EA,T : in Pa²h
- **DOSE**

DATA VISUALIZATION

DS200 dosimeter is supplied with LDS 23 software allowing data visualization and printing of measurement report.



FUNCTIONS

- > **Noise exposure at workstation according to :**
 - station (automatic measurement)
 - task
 - function
- > **Setting up of HEG (Homogeneous Exposure Group) :**
Integration of measurement uncertainty due to principle and instrument.
- > **Calculation of exposure levels in case of using PPE (Personal Protective Equipment)** as per SNR and HML methods

STANDARDS

Meet the following standards:
Exposimeter : CEI 61252 (2002) – NF EN 61260 (1996) – NF EN 61672-1 (2003) – CEI 61260-1995/A1 (2001)
Electromagnetical compatibility : Directive 89/336/CEE - EN 61000-6-1 – NF EN 61000-6-2 – NF EN 61000-6-3 – NF EN 61000-6-4 (2001)

TECHNICAL FEATURES

Features	Lq and Lp channels	Peak channel
Accuracy	Class 2	Class 2
Dynamic range	40-120 or 60-140 dB	73-123 or 93-143 dB
Time frequency weightings	A and C	C or Z
Values	LAF, LAS, max, min, LAeq, LCEq, max, min, Lex, d, EAT, DOSE	LCpk, LZpk
Simultaneous measurement mode	LAeq and LCEq	LCpk, LZpk
Duration of integration of LXeq	1s at 60 s (step of 1s)	
Acoustic pressure sampling	24 kHz	24 kHz
Detection and peaks counting		135 dB – 137 dB – 140 dB
Microphone	Type electret – diameter 9.5 mm (3/8") – 15 mV/Pa	
Memory module	Integrated type Micro SD 2 Go – Data download by USB cable	
Storage capacity	99 event timers (work station)	
Clock accuracy	Better than 0.01%	
Power supply – battery life	Internal battery type Li-ion rechargeable – battery life > 30 hours according to configuration	
Operation	from -10 °C to +50 °C / from 650 to 1080 hPa / from 0 to 95%HR	
Storage	from 0 to 50°C	
Alarm	Visual according to levels to help wearing individual protections	
Dimensions	117 x 32 x 58 mm	

SOFTWARES

DS200 dosimeter is supplied **with the LDS23 software allowing** :

- files transfer, process and data save
- simplified evaluation of exposure to workstation
- custom prints
- predefined reports



A processing software is also available **as option** : **LDS300**. It allows :

- metrological configuration of measurement
- temporal configuration of measurement (start-stop-event timers...)
- events/tasks coding and written informations during station study
- file visualization
- files transfer, process and data save and management of the equipment pool
- HEG creation
- simulation of partial exposures linked to events (tasks with wearing of PICB, SNR and HML method)
- data calculation suitable with NF S 31-084 / ISO 9612 standards
- custom prints
- predefined reports



D-MB

SUPPLIED WITH

- Calibration certificate
- Windshield
- LDS23 software
- Microphone fixing kit
- Battery adapter/charger USB type
- Carrying case



Fixing kit

OPTIONAL

- Microphone for channel n° 2
- **CAL200** : acoustic calibrator
- **LDS300** : processing software
- **D-MB** : direct microphone
- **D-V5** : carrying case for 5 instruments
- **D-S1** : charger and transfer station for 1 instrument
- **D-S5** : charger and transfer station for 5 instrument



CAL 200



D-S1



D-S5

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