

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 L _X eq	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

www.kimo.fr

Distributed by :



EXPORT DEPARTMENT

Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

e-mail : export@kimo.fr