

DOSIMETER

Personal Noise Dosimeter

Low cost • Lightweight • Easy to use

Etymotic takes the cost and complication out of noise dosimetry.

What we know

- Hearing loss from exposure to loud sound is cumulative
- Noise-induced hearing loss is preventable
- Most people find it difficult to judge safe exposure

Sound level meters measure at discrete times but dosimeters measure continually over time for a more accurate estimate of risk.



2 versions

ER-200 with interpretation chart

ER-200D with PC-based data-logging software and programmable options



ER-200 Personal Noise Dosimeter

- Color-coded LEDs indicate safe, borderline and high-risk exposures
- 2 Versions
 - NIOSH (85 dB criterion, 3 dB exchange rate, 75 dB threshold)
 - OSHA (90 dB criterion, 5 dB exchange rate, 80 dB threshold)

2 Modes of Operation

Quick Check

- 2-minute test calculates dose per hour
- Estimates potential risk of over-exposure (e.g., high-noise areas, power tools, concerts, sporting events)

Normal

- Continuously measures noise up to 16 hours
- Auto power-off after 16 hours

\$149

Includes:

- interpretation chart
- windscreen
- user manual



ER-200D Noise Dosimeter with Data Logging

- Color-coded LEDs indicate safe, borderline and high-risk exposures
- Data table and printable reports are automatically created in Excel

Programmable Features

Dose Criteria

- NIOSH (85 dB criterion, 3 dB exchange rate, 75 dB threshold)
- OSHA (90 dB criterion, 5 dB exchange rate, 80 dB threshold)
- CUSTOM (User-defined criterion, exchange rate and threshold)

Run Time

- 16 hours • 3 days • 5 days • 7 days

Power Button

- Manual shutdown (default)
- Option to disable (user cannot shut down)

LEDs

- LEDs flash during run (default)
- Option to disable (LEDs do not flash during run)

Memory Usage

- Memory full: Previous results are overwritten (default)
- Memory full: Results must be downloaded and cleared from the device

3 Modes of Operation

Quick Check

- 2-minute test calculates dose per hour
- Estimates potential risk of over-exposure (e.g., high-noise areas, power tools, concerts, sporting events)

Normal

- Programmable to 16 hours, 3, 5, 7 days
- Auto power-off

Status

- Memory (adequate or full)
- Battery (OK or low)

\$249

Includes:

- PC software
- USB cable
- windscreen
- user manual



Sample report

Report Date	8/11/2009
Report Time	7:54 PM
Serial Number	102
Run	185
Run Type	Normal Run
Final Dose %	1400% (14X)
Run Description	Hoffman Estates HS Marching Band Drumline (half of members). Dosimeter worn by Ian Armstrong.
Real-Time Run Length (DD:HH:MM:SS.SS)	00:01:04.36.64
Max Real-Time Run Length (DD:HH:MM:SS.SS)	00:16:00.00.00
Exchange Rate (dB)	3
Criterion (dB)	85
Threshold (dB)	75
Signal Source	Microphone
Signal Source Gain Calibration (dB)	-1
Run Termination	Run ended due to manual shutdown.
Warnings	
ER-200DL Software Version	2.02

