

01dB

Wed007 and dBLexd

Wed007,
For your ears only!



Addressing the issue individual noise exposure assessment: acoustic dosimeter Wed007 and software dBLexd...

Based on a multiple-point metrologic approach, the technical solution consists in deploying a set of "blind" dosimeters in the work place, which are operated using a wireless remote control.

This simple and non-invasive device is a valuable tool when implementing new regulations.

Wed007, a solution compliant with European Directive 2003/10/CE

Dosimeter / exposimeter Wed007

Wed consists of a portable, ergonomic and miniaturised housing, hosting the acquisition unit, storage and data transfer.

- ▶ Simultaneous measurement of sound levels in dB(A) and dB(C)
- ▶ Calculation of daily exposure Lex_{8h}
- ▶ Measurement dynamic range from 40 to 140 dB(A)
- ▶ Counting of 135, 137 and 140 dB(C) peaks
- ▶ Operating life: 50 h

Wireless remote control dBWed

The Pocket PC, including dBWed operating software, represents the interface between the experimentalist and the Wed dosimeter.

- ▶ Simultaneous control of up to 5 instruments
- ▶ Management of measurement configurations
- ▶ Collection of measurement files
- ▶ Real-time visual display of measured data on colour screen
- ▶ Programming of start modes
- ▶ Voice comments, written comments

dBLexd, processing software

The dBLexd data processing software is compliant with the requirements of current standards and regulations.

- ▶ Compliant with Standards NF S 31-084 (2002) and ISO 9612 (1997)
- ▶ Transfer or importation of measurement sessions
- ▶ Calculation of Lex_{8h} coming from HEG
- ▶ Taking into account of uncertainties
- ▶ Automatic standardised reports



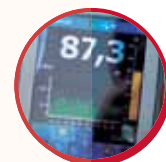
Enhance your know-how

- ▶ occupational noise
- ▶ hearing protection
- ▶ workshop mapping
- ▶ noise measurement



Technical specifications of Wed007/dBLexd

Characteristics	Wed007	
Standards	CEI IEC 61252 (2002) / ANSI 1.25 (1991) / CEI IEC 61672-1 (2002) CEM Radio ETSI EN 300 328 V1.5.1 (2004) / Emission CEI IEC 61000-6-3 / CEI IEC 61000-6-4 / Reception CEI IEC 61000-6-1 / CEI IEC 61000-6-2	
Metrology	Leq / Lp channel	Peak channel
Precision class	Class 2	
Linearity domain	80 dB(A)	50 dB(C)
Dynamic range	2 40-120 dB(A) / 60-140 dB(A)	1 (fixed) 93-143 dB(C)
Frequency weightings	A and C in //	C or Z
Measured magnitudes	LAeq, LCEq, LASp, LAFp LASpmax, LAFpmax, LASeq, LAFeq	LCpk, LZpk
Configuration	Tc, Lc, LCutoff, Q (3, 4, 5)	135, 137 and 140 dB
Peak counting	-	Yes
Calculated magnitudes	Lex,d, EAT, Dose, SEL, LAvg, TWA, Lex,8h, Projected dose, Lxx	
Integration time	From 1 s to 60 s	
	Microphone: type MCE321, class 2, 10 mV/Pa, 9 mm, weight < 10 g Operating temperature: -10°C / +50°C (0-95% RH) Dimensions: 105 x 60 x 25 mm Total weight: 145 g	
Memory module	Integrated flash memory, type Micro SD 256 MB Storage capacity: LAeq (1s) + LCpk > 100 days	
General performances	Typical operating life: 50 h (standard mode) / 10 h (remote control mode) Parallel measurement and time history of all indicators Pilot light indicating status Integrated self-test Keyboard locking	
Operating software dBWed	Control by Pocket PC: management of configurations / real-time display / data collection Bluetooth wireless communication Programmable start modes: manual / delayed / by periods Visual display and coding of data on colour screen of Pocket PC Preprogrammed set-up (type ISO85, OSHA,...) Mode Leq (Start/Stop) Written and voice comments (synchronised with measurement file) Language: English, French	
Processing software dBLexd	Compliant with Standards NF S 31-084 (2002) and ISO 9612 (1997) Transfer of measurement sessions Importation of 01dB measurement sessions (compatible with SIE95/CLS95/*.cmg and *.sip files) Start in simplified mode Visual display of time histories Coding of periods HEG management (tasks or operations) Calculation of noise exposure parameters according to standards Printing of results as standardised sheets Automatic reports Storage of projects	
Standard package	Dosimeter Wed including a MCE321-type microphone with integrated preamplifier and tie clip 1-m extension cable Acoustic calibrator Table charger with mains power supply (1 unit or 5 units depending on version) Hook and loop armband Carrying case Pocket PC Win CETM with software dBWed Processing software dBLexd User manual	



The presented characteristics are subject to change without notice.

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