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01dB acoustic dosimeter WED

Addressing the issue individual noise exposure assessment

Based on a multiple-point metrologic approach, the technical solution consists in deploying a set of 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.

Dosimeter exposimeter WED

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

- 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: 50h

dBLEXD, processing software

dBLEXD is used for transfer, process, report and archive data.

- Compliant with NF S 31-084 and ISO 9612 standards
- Transfer or importation of data
- Calculation of Lex,8h, coming from HEG
- Taking into account of uncertainties
- Automatic reports

Wireless remote control dBWED

From a PC tablet, the **dBWED** control software is the interface between the operator and dosimeter **WED**.

- Simultaneous control up to 5 instruments by workshop or study area
- Management of measurement configurations
- Collection of measurement files
- Real-time display of measured data on a colour screen
- Programming of start modes
- Voice comments, written comments



Technical specifications

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
Linearity domain	Class 2	
Linearity domain	80 dB(A)	50 dB(C)
Dynamic range	2 40-120 dB(A) / 60-140 dB(A) 45-120 dB(C) / 65-140 dB(C)	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 and programmable)	135, 137 and 140 dB
Peak counting	—	Yes
Calculated magnitudes	Lex,d, EAT, Dose, SEL, LAvg, TWA, Lex,8h, projected dose, Lxx	
Intégration time	From 1s to 60s	
Microphone Operating temperature Dimensions Total weight	Type MCE321 class 2, 10 mV/Pa, 9mm, weight < 10g 0°C / + 40°C (0-95% HR) 105 x 60 x 25 mm 145 g	
Memory module	Integrated flash memory, type Micro SD 2 Go Storage capacity: LAeq (1s) + LCpk > 100 days	
General performances	Typical operating life: 50h (standard mode) / 10h (remote control mode) Parallel measurement and time history of all indicators Pilot light indicating status Integrated self-test Keyboard locking	
Control software dBWED	Control using Tablet PC: configuration management / real-time display / data collection Wireless Bluetooth communication Programmable start modes: immediate / delayed / by periods / by periods Visual display and coding of data on colour screen of Tablet PC Pre-programmed configurations (type ISO85, OSHA,...) Leq mode (Start/Stop) Written comments (synchronised with measurement file) PC-compatible software Languages: English, French	
Processing software dBLEXD	Compliant with NF S 31-084 (2002) and ISO 9612 (2009) standards Transfer of measurement files Import 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 Simulation of ear protection wearing Printing of results as standardised sheets Automatic reports Storage of projects	
Standard package	Dosimeter WED including a MCE321 -type microphone with integrated preamplifier, tie clip and soulder 1m extension cable Table charger with main power supply (1 unit or 5 units depending on version) Carrying case dBWED software Processing software dBLEXD User manual	
Options	Vibration calibrator Tablet PC	

