

db-4000EZ

Personal Noise Dosimeter

Simple, Fast & Easy

- Calibrate, Collect Data and View Results with Minimal Effort
- User-Friendly Icons Continuously Indicate Exposure Status
- High Speed IR Data Communications

Prevents Over-Exposures

- Optional Vibrating Belt Clip Alarm

Versatile

- Pre-programmed for OSHA, MSHA, ACGIH & European Directive 2003/10/EC
- Multiple User-Defined Setups
- Optional Boom Microphone for plant surveys & area sound measurements
- English, Spanish, German, French & Italian Language Support
- Formatted Report from Instruments Direct to HyperTerminal

Certified Intrinsically Safe

- UL and New ATEX Directive

Metrosoft® Software Included*

- Instrument Setup
- Storage & Printing of Test Results

Very Affordable



Finally, a personal noise dosimeter designed for the infrequent user. The new db-4000EZ Personal Noise Dosimeter recognizes that not everyone uses a noise dosimeter every day. And when surveys are needed, you don't want to spend a lot of time learning or training on their use. Nor do you want to spend a lot on money on something that is used infrequently. The new db-4000EZ saves you time and money without asking you to compromise on quality.

The db-4000EZ takes the measurement of personal noise exposures to new levels of simplicity. The laminated Quick-Start Instruction Card provided with the db-4000EZ fits neatly in your shirt pocket and is all that is required for routine surveys. An optional vibrating belt clip alarm and user-friendly on-screen icons notify workers and monitoring technicians quickly and simply when permissible exposures levels are reached.

But don't let the simplicity fool you. The db-4000EZ is a powerful professional instrument that provides you with documented calibrations and a comprehensive set of measured and calculated test results.

Versatility of the db-4000EZ includes several pre-programmed and user-defined setups to monitor in accordance with unique corporate standards or localized government regulations, an optional boom microphone for area sound surveys and a choice of five display languages.

All test results may be obtained directly from the instrument display or uploaded to HyperTerminal the included Metrosoft software program for archiving. A convenient and simple one-page report may be generated by HyperTerminal or Metrosoft or optionally directly from the instrument to an ASCII-compatible parallel printer.

The db-4000EZ is part of a complete family of simple solutions at affordable prices to address noise, heat stress, IAQ and toxic/com-bustible gas monitoring applications. Metrosonics solutions can be seen at www.Metrosonics.com.

Technical Specifications

User-Selectable Parameters

Per Virtual Dosimeter

The db-4000EZ contains two virtual dosimeters within one instrument. The following are parameters that can be uniquely set for each virtual dosimeter.

Time Constant:	Selectable Slow or Fast for each or Impluse for both
Exchange Rate:	Selectable 3, 4, 5 or 6 dB for each
Criterion Level:	40 to 140 dB in 1 dB increments for each
Criterion Time:	1 to 24 hours in 1 hours increments for each
Thresholds Level:	40 to 140 dB in 1 dB increments for each
Upper Limit Value:	40 to 140 dB in 1 dB increments for each
Compliance Status Indicator Trigger:	40 to 140 dB TWA in 1 dB increments (2) for each

Per Instrument

The following parameters can be user-selected and are applied globally to the instrument.

RMS Range:	Selectable 40 to 110 dB or 70 to 140 dB
RMS Weighting:	Selectable A or C
Peak Weighting:	Selectable A, C, or Z
Cal Level:	90 to 120 dB in 1 dB increments
Slow Ceiling Limit:	40 to 140 dB in 1 dB increments
Fast Ceiling Limit:	40 to 140 dB in 1 dB increments
Proj Dose Time Period:	8 to 18 hours in 1 hour increments
Vibrating Alarm Trigger:	40 to 140 dB TWA in 1 dB increments, On or Off (Based on Dosimeter #1 TWA)
Display Contrast:	User Adjustable
Display Descriptors:	Selectable "Basic" or "ISO/IEC" nomenclature
Display Backlight:	Selectable "Off", "Auto" and "Key" activated
Display Language:	Selectable English, Spanish, French, German & Italian
Date & Time:	DD/MMM/YYYY; HH:MM:SS AM/PM or 24-hour clock
Keypad Lock:	(1) 4-digit User-defined code for Run/Pause access. (1) 4-digit User-defined code for Setup access
Auto-Run Modes:	Selectable "Timed Run", "Days of Week" or "Date"

General Specifications

Microphone:	Detachable Pendant Microphone with Clothing Clip
Data Available via Display:	SPL, Peak, Max, Min, Avg, TWA, Projected TWA, SEL, Dose, Projected Dose, Exposure, Compliance Status, Time over Ceiling Limit, Elapsed Time, Battery Status, OR & UR indicators
Peak Range:	115 to 143 dB Peak
Amplitude Resolution:	0.1 dB
Dose Resolution:	0.001% to 9999%, auto-scaling always showing 4-digits
Operating Temp Range:	-10 to +50°C (+14 to + 122°F)
Storage Temp Range:	-25 to +60°C (-13 to +140°F)
Humidity Range:	0 to 95% non-condensing
Intrinsic Safety:	UL, cUL, ATEX MSHA, SIMTARS (pending) and
Size:	68.6 x 127 x 38.1 mm (2.7" x 5" x 1.5")
Weight:	369 g (14 oz)
Power:	Minimum (80) hours from (2) AA disposable alkaline batteries
Mechanical:	Industrial-grade cast aluminum, IP-65 rated. Removable belt clip with tripod mounting adapter
Communications:	Infrared Serial Interface @ 115 kbps
Product Standards:	CE Mark, EN 61252, ANSI S1.25
Software Compatibility:	Metrosoft ms-4000EZ and HyperTerminal
Optional Features:	Vibrating Alarm Belt Clip Detachable Boom Microphone

Specifications subject to change without notice
For most current specifications and additional information about Metrosonics visit our web site at www.Metrosonics.com



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