

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



800.245.0779

1060 Corporate Center Drive • Oconomowoc, WI 53066 USA • phone 262.567.9157 • fax 262.567.4047

www.Metrosonics.com